| | | | | | ARTMENT OF | | TAH AL RESOURCES AND MINING | | FORM 3 AMENDED REPORT | | | | | | | |
|--|--|---|--|--|--|----------------------------------|--|-------------------|--|-----------------------|-------------------------------|-------------------------------------|--------------------------------------|--|--|--|
| | | АР | PLICATION FOR | R PERMIT | TO DRILL | | | | 1. WELL NAME and NUMBER Rowley 3-16B4 | | | | | | | |
| 2. TYPE | OF WORK | DRILL NEW WELL | REENTER P | &A WELL | DEEPEN V | WELL (| | | 3. FIELD OR WILDC | AT ALTAM | ONT | | | | | |
| 4. TYPE | OF WELL | | | oed Methane | 0 | | | | 5. UNIT or COMMUN | NITIZATI | ON AGRE | EMENT | NAME | | | |
| 6. NAME | OF OPERATO | | EL PASO E&P | | | | | | 7. OPERATOR PHON | I E 303 291 | 6417 | | | | | |
| 8. ADDR | ESS OF OPER | | | , | | | | 9. OPERATOR E-MAI | IL | | | | | | | |
| | ERAL LEASE | NUMBER | 99 18th ST, STE 190 | | RAL OWNERS | HIP | | | 12. SURFACE OWNE | | pelpaso.co |)III | | | | |
| | AL, INDIAN, C | Fee | | FEDERAL | INDIAN | v 🔘 : | STATE FEE (| 0 | | DIAN () | STATE | | FEE 📵 | | | |
| | | E OWNER (if bo | Kyle Dea | n Rowley | | | | | 14. SURFACE OWNE | 801.541 | .8499 | | • | | | |
| 15. ADD | RESS OF SUR | FACE OWNER (if | box 12 = 'fee') 35 New Star Dr., Sa | lt Lake City, I | UT 84116 | | | | 16. SURFACE OWNE | R E-MAI | L (if box | 12 = 'fe | e') | | | |
| | IAN ALLOTTE 2 = 'INDIAN' | E OR TRIBE NAM ') | IE | | ND TO COMMI E FORMATION (Submit Comi | NS | Application) NO | _ | 19. SLANT VERTICAL DIR | ECTIONA | ∟⊜ н | IORIZON | TAL 💮 | | | |
| 20. LOC | ATION OF W | ELL | F | OOTAGES | | QTR-Q | TR SECT | ON | TOWNSHIP | RA | NGE | MEI | RIDIAN | | | |
| LOCATI | ON AT SURFA | ACE | 1255 | FNL 661 FW | /L | NWNW | 1 16 | | 2.0 S | 4.0 |) W | | U | | | |
| Top of I | Uppermost Pr | roducing Zone | 1255 | FNL 661 FW | /L | NWNW | 16 | | 2.0 S | 4.0 |) W | | U | | | |
| At Tota | l Depth | | 1255 | FNL 661 FW | /L | NWNW | 16 | | 2.0 S | 2.0 S 4.0 W | | U | | | | |
| 21. COU | NTY | DUCHESNE | | 22. DISTANCE TO NEAREST LEASE LINE (Feet) | | | 23. NUMBER OF ACE | RES IN D | | UNIT | | | | | | |
| | | DOCHESINE | | | NCE TO NEAF | REST WE | LL IN SAME POOL | - | 26. PROPOSED DEP | тн | TVD: 145 | 00 | | | | |
| 27. ELEV | ATION - GRO | OUND LEVEL | | 28. BOND NUMBER 2 | | | | 29. SOURCE OF DRI | | | TE ADDI | TCARLE | | | | |
| | | | | | | | | | | | NIIMBED | | 43-7295 Duchesne City Water | | | |
| | | 6394 | | | 4 | 100JU <mark>070</mark> 8 | 3 | | WATER RIGHTS APP | | | | | | | |
| | | | | | , Casing, an | d Ceme | nt Information | | WATER RIGHTS APF 43-729 | | sne City W | ater | | | | |
| String | | Casing Size | Length | Weight | , Casing, and Grade & T | d Ceme | ent Information Max Mud Wt. | | WATER RIGHTS APF 43-729 Cement | | Sacks | Yield | | | | |
| String Cond Surf | Hole Size 17.5 12.25 | | Length 0 - 1000 0 - 6100 | Weight 54.5 | Casing, and Grade & T | d Ceme Thread | nt Information | | Cement Class G | 95 Duches | sne City W | Yield 1.15 | Weight 15.6 | | | |
| Cond | 17.5 | Casing Size | 0 - 1000 | Weight | , Casing, and Grade & T | d Ceme Thread | nt Information Max Mud Wt. 9.0 | | WATER RIGHTS APF 43-729 Cement | 95 Duches | Sacks 670 | Yield | 15.6 | | | |
| Cond | 17.5 | Casing Size | 0 - 1000 | Weight 54.5 | Casing, and Grade & T | nd Ceme Thread T&C | nt Information Max Mud Wt. 9.0 | Pre | Cement Class G emium Lite High Street | 95 Duches | Sacks 670 1240 | Yield 1.15 1.78 | 15.6 12.0 | | | |
| Cond | 17.5 12.25 | Casing Size | 0 - 1000 0 - 6100 | Weight 54.5 40.0 | Casing, and Grade & T J-55 LT N-80 LT | nd Ceme Thread T&C | nt Information Max Mud Wt. 9.0 9.0 | Pre | Cement Class G emium Lite High Stre Class G | 95 Duches | Sacks 670 1240 160 | Yield 1.15 1.78 1.25 | 15.6 12.0 14.4 | | | |
| Cond | 17.5 12.25 | Casing Size | 0 - 1000 0 - 6100 | Weight 54.5 40.0 29.0 | Casing, and Grade & T J-55 LT N-80 LT | nd Ceme Thread T&C T&C | nt Information Max Mud Wt. 9.0 9.0 | Pre | Cement Class G emium Lite High Street Class G emium Lite High Street | 95 Duches | Sacks 670 1240 160 490 | Yield 1.15 1.78 1.25 1.78 | 15.6 12.0 14.4 12.0 | | | |
| Cond Surf | 17.5 12.25 8.75 6.125 | Casing Size 13.375 9.625 7 4.5 | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 | Weight 54.5 40.0 29.0 | P-110 L | nd Ceme T&C T&C LT&C LT&C ACHMEN | 9.0 9.0 9.0 10.5 | Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G emium Lite High Stre | ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 | 17.5 12.25 8.75 6.125 | Casing Size 13.375 9.625 7 4.5 | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 | Weight 54.5 40.0 29.0 15.1 | P-110 L ATTA | T&C LT&C ACHMEN | 9.0 9.0 10.5 13.5 THE UTAH OIL | Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G Class G Class G Class G | ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 | 17.5 12.25 8.75 6.125 | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 | Weight 54.5 40.0 29.0 15.1 | P-110 L P-110 L ATTA CORDANCE | T&C LT&C LT&C ACHMEN | 9.0 9.0 10.5 13.5 THE UTAH OIL | Pre Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G Class G Class G Class G | ength ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 | 17.5 12.25 8.75 6.125 | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 | Weight 54.5 40.0 29.0 15.1 | P-110 L P-110 L ATTA CORDANCE | T&C LT&C LT&C ACHMEN | 9.0 9.0 10.5 13.5 THE UTAH OIL | Pre Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G Class G Class G Class G | ength ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 L1 AF | 17.5 12.25 8.75 6.125 VERIFY VELL PLAT OR | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 | Weight 54.5 40.0 29.0 15.1 HED IN ACC | P-110 L P-110 L ATTA | T&C LT&C LT&C ACHMEN | Max Mud Wt. 9.0 9.0 10.5 13.5 THE UTAH OIL A COMPLETE DRI FORM 5. IF OPE | Pre Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G Class G Class G Class G Class G | ength ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 L1 DI DRILLEC | 17.5 12.25 8.75 6.125 VERIFY VELL PLAT OR | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 ENG ARE ATTACE BY LICENSED SU FACE OWNER AGR | Weight 54.5 40.0 29.0 15.1 HED IN ACCEPTATION OF HORIZON | P-110 L P-110 L ATTA | T&C T&C LT&C ACHMEN WITH E) | Max Mud Wt. 9.0 9.0 10.5 13.5 THE UTAH OIL A COMPLETE DRI FORM 5. IF OPE | Pre Pre | Cement Class G emium Lite High Stre Class G emium Lite High Stre Class G Class G Class G Class G Class G | ength ength | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 L1 DI DRILLEC | 17.5 12.25 8.75 6.125 VERIFY VELL PLAT OR RECTIONAL SO) Marie Okeefe | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 ENG ARE ATTACE D BY LICENSED SU FACE OWNER AGR | Weight 54.5 40.0 29.0 15.1 HED IN ACCEPTATION OF HORIZON | P-110 L P-110 L ATTA CORDANCE ENGINEER FEE SURFACE ONTALLY | T&C T&C LT&C ACHMEN WITH E) | Max Mud Wt. 9.0 9.0 10.5 13.5 THE UTAH OIL A COMPLETE DRI FORM 5. IF OPE | Pre Pre Pre AND G | Cement Class G emium Lite High Stra Class G emium Lite High Stra Class G Class G Class G Class G Class G Class G | ength ength ON GEN | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |
| Cond Surf I1 L1 L1 DI DRILLED NAME N SIGNAT | 17.5 12.25 8.75 6.125 VERIFY VELL PLAT OR RECTIONAL SO) Marie Okeefe | Casing Size 13.375 9.625 7 4.5 THE FOLLOWI MAP PREPARED STATUS OF SUR SURVEY PLAN (I | 0 - 1000 0 - 6100 0 - 10985 10785 - 14500 ENG ARE ATTACE D BY LICENSED SU FACE OWNER AGR | Weight 54.5 40.0 29.0 15.1 HED IN ACCEMENT (IF | P-110 L P-110 L ATTA CORDANCE ENGINEER FEE SURFACE ONTALLY | T&C T&C LT&C ACHMEN WITH E) | Max Mud Wt. 9.0 9.0 10.5 13.5 THE UTAH OIL A COMPLETE DRI FORM 5. IF OPE | Pre Pre Pre AND G | Cement Class G Emium Lite High Stre Class G Emium Lite High Stre Class G | ength ength ON GEN | Sacks 670 1240 160 490 60 240 | Yield 1.15 1.78 1.25 1.78 1.62 1.86 | 15.6 12.0 14.4 12.0 14.1 | | | |

Rowley 3-16B4 NWNW Sec. 16, T2S, R4W DUCHESNE COUNTY, UT

EL PASO E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

| <u>Formation</u> | <u>Depth</u> |
|------------------|--------------|
| Green River | 6,000' |
| Mahogany Bench | 7,995' |
| L. Green River | 9,385' |
| Wasatch | 10,885' |
| TD | 14,500' |

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

| <u>Substance</u> | <u>Formation</u> | <u>Depth</u> |
|------------------|------------------|--------------|
| | Green River | 6,000' |
| | Mahogany Bench | 7,995' |
| Oil | L. Green River | 9,385' |
| Oil | Wasatch | 10,885 |

3. Pressure Control Equipment: (Schematic Attached)

A 5.0" by 20.0" rotating head on structural pipe from surface to 1000'.

A 2M annular and rotating head with 2M choke and kill lines from 1000' to 6,100' on Conductor.

A 5M BOP stack, 5M kill lines and choke manifold used from 6,100' to 10,985'. An 11.0", 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 10,985' to 14,500'.

The BOPE and related equipment will meet the requirements of the 2M, 5M and 10M systems respectively.

OPERATORS MINIMUM SPECIFIC FOR BOPE:

The conductor pipe will be equipped with a 2M flanged casing head, and we will NU a 13 5/8" 2M BOP consisting of a minimum 2M annular and a rotating head with 2M choke and kill lines. This annular will be tested to 250 low and 1000 high psi. (50% of rated working pressure) prior to drill out. The choke manifold

equipment (designed to 5M specifications as shown in attached diagram), upper Kelly cock, floor safety valves and choke and kill lines will be tested to 250 psi low and 2000 high psi. BOPE will be hydraulically operated.

The surface casing will be equipped with a flanged casing head of 5M PSI working pressure. We will NU a 13 5/8" 5M BOP, 5M Annular. This equipment will be nippled up on the surface casing and tested to 250 psi low test/5M psi high test prior to drilling out. The surface casing will be tested to 1500 psi. Intermediate casing will be tested to the greater of 1500 psi or .22 psi/ft. The 5M choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventor will be tested to 250 psi low test and 2500 psi high test or 50% of rated working pressure.

A 10M BOP installed with 5M annular with 3 ½" rams, blind rams, mud cross and rotating head from 10,985' to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventor will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig #406 will be used at the proposed location. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance for 5M and 10M psi systems.

Auxiliary Equipment:

- A) Mud logger with gas monitor 6,100' to TD
- B) Choke manifold with one manual and one hydraulic operated choke
- C) Full opening floor valve with drill pipe thread
- D) Upper and lower Kelly cock
- E) Shakers

4. Proposed Casing & Cementing Program:

Please refer to the attached Casing and Cementing Program.

5. **Drilling Fluids Program:**

Proposed Mud Program:

| Interval | Type | Mud Weight |
|----------|------|------------|
| Surface | WBM | 8.4 - 9.0 |

| Intermediate | WBM | 8.4 – 10.5 |
|--------------|-----|------------|
| Production | WBM | 9.5 – 13.5 |

Anticipated mud weights are based on actual offset well mud weights with safety margin. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. Evaluation Program:

Please refer to the attached Logging Program.

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 14,500' TD equals approximately 10,179 psi (calculated at 0.702 psi/foot).

Maximum anticipated surface pressure equals approximately 6,989 (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

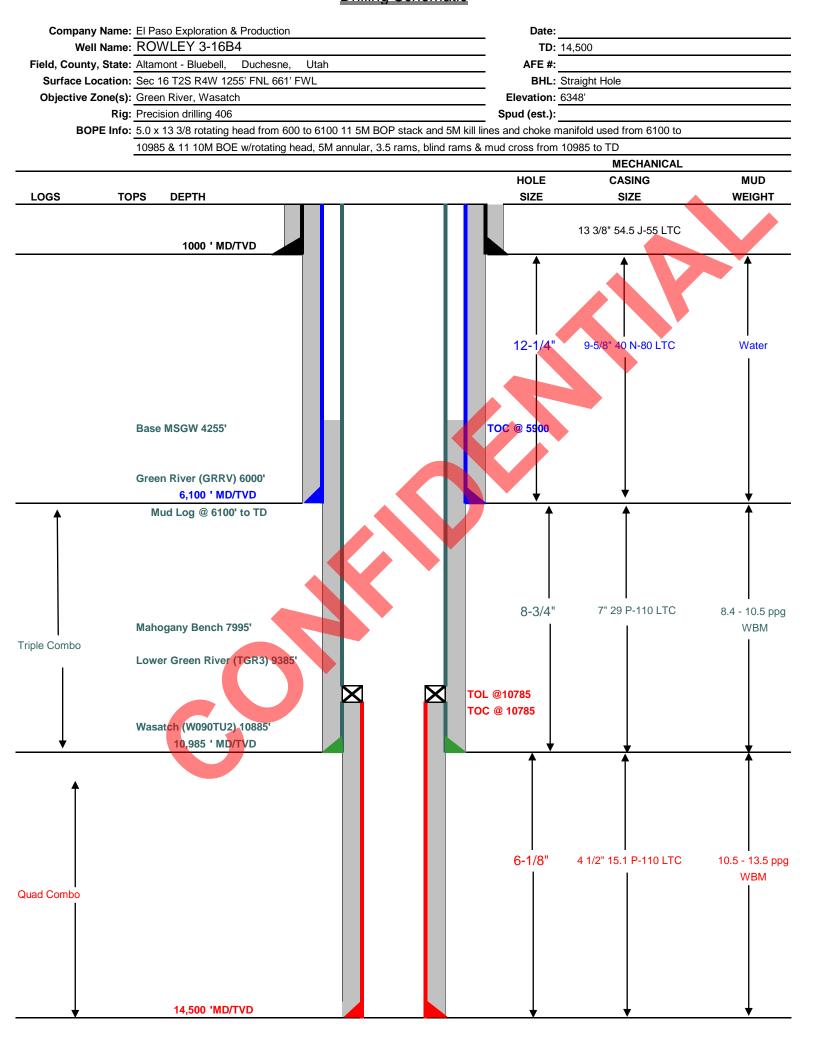
Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 10,985' and gas to surface (0.1 psi/ft) = 7,689 psi

BOPE and casing design is based on the lesser of the two MASPs which is anticipated BHP – partially evacuated gradient 6,989 psi

8. OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.



Drilling Schematic



DRILLING PROGRAM

CASING PROGRAM

| | | | | | | | DESIGN FACTOR | S |
|------------------|---------|----------------|-------|-------|-------|--------|---------------|---------|
| | SIZE | INTERVAL | WT. | GR. | CPLG. | BURST | COLLAPSE | TENSION |
| | | | | | | | | |
| | | | | | | 2,730 | 1,140 | 1,399 |
| CONDUCTOR | 13 3/8" | 0' - 1000 | 54.5 | J-55 | LTC | 3.41 | 2.44 | 25.67 |
| | | | | | | 5,750 | 4,230 | 737 |
| SURFACE | 9-5/8" | 0' - 6100 | 40.00 | N-80 | LTC | 1.18 | 1.40 | 2.39 |
| | | | | | | 11,220 | 8,530 | 797 |
| INTERMEDIATE | 7" | 0' - 10985 | 29.00 | P-110 | LTC | 1.28 | 1.42 | 2.17 |
| | | | | | | 14,420 | 14,350 | 406 |
| PRODUCTION LINER | 4 1/2" | 10785' - 14500 | 15.10 | P-110 | LTC | 5.84 | 1.410 | 2.81 |

| CEMENT PROGR | AM | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|------------------|------|-------------|---------------------------------------|-------|--------|----------|-------|
| | | | | | | | |
| CONDUCTOR | | 1000 | Class G + 3% CACL2 | 670 | 10% | 15.6 ppg | 1.15 |
| | | | | | | | |
| SURFACE | Lead | 5,600 | TXI Completions grade | 1240 | 25% | 12.0 ppg | 1.78 |
| | | | | | | | |
| | | | | | | | |
| | Tail | 500 | Class G 50:50 poz, 2% CaCl2, 2% gel | 160 | 25% | 14.4 ppg | 1.25 |
| | | | 0.3% sodium metasilicate | | | | |
| | | | | | | • | |
| INTERMEDIATE | Lead | 4,585 | TXI Completions grade | 490 | 25% | 12.0 ppg | 1.78 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Tail | 500 | 10:0 RFC (Class G) | 60 | 25% | 14.1 ppg | 1.62 |
| | | | | | | | |
| PRODUCTION LINER | | 3,715 | WellBond Slurry | 240 | 25% | 14.5 ppg | 1.86 |
| | | | Class G + 35% D66 + 1.6 gps D600G + | | | | |
| | | | 0.05 gps D80 + 0.3% D167 + 0.2% D46 + | | | | |
| | | | 0.4% D800 + 1% D20 | | | | |
| | | | | | | | |

FLOAT EQUIPMENT & CENTRALIZERS

LINER

CONDUCTOR PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.

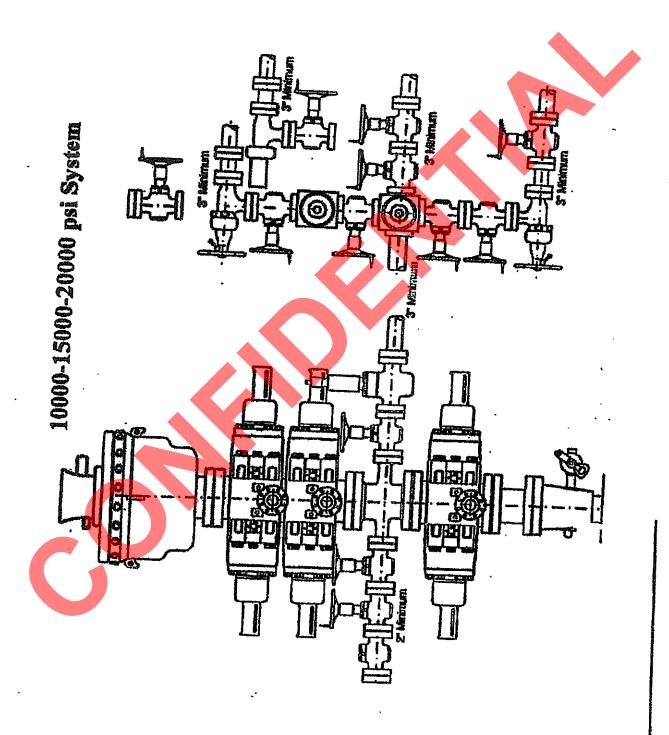
SURFACE PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.

INTERMEDIATE PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Install 2 bow spring centralizers every 3rd joint.

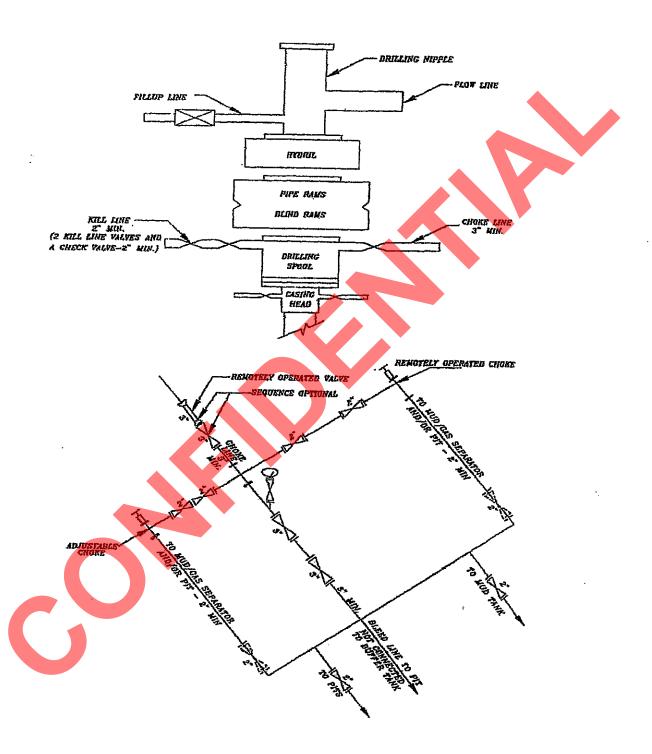
Float shoe, 1 joint, float collar. Rigid centralizer every other joint. Thread lock all FE

PROJECT ENGINEER(S): Alex Erhardt 303.291.6443

MANAGER: Eric Giles 303.291.6446



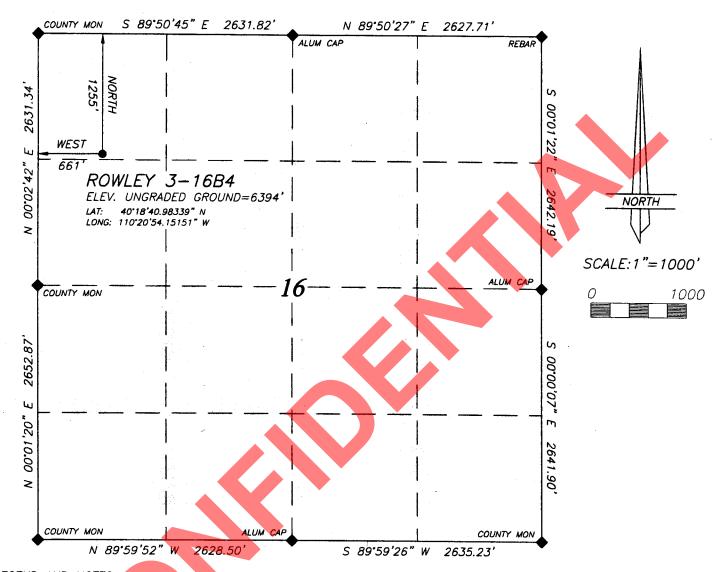
5M BOP STACK and CHOKE MANIFOLD SYSTEM



EL PASO E & P COMPANY, L.P.

LOCATED IN THE NW¼ OF THE NW¼ OF SECTION 16, T2S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH

WELL LOCATION
ROWLEY 3-16B4



LEGEND AND NOTES

CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

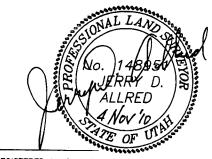
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°19'29.81377"N AND LONG. 110°21'24.89272"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



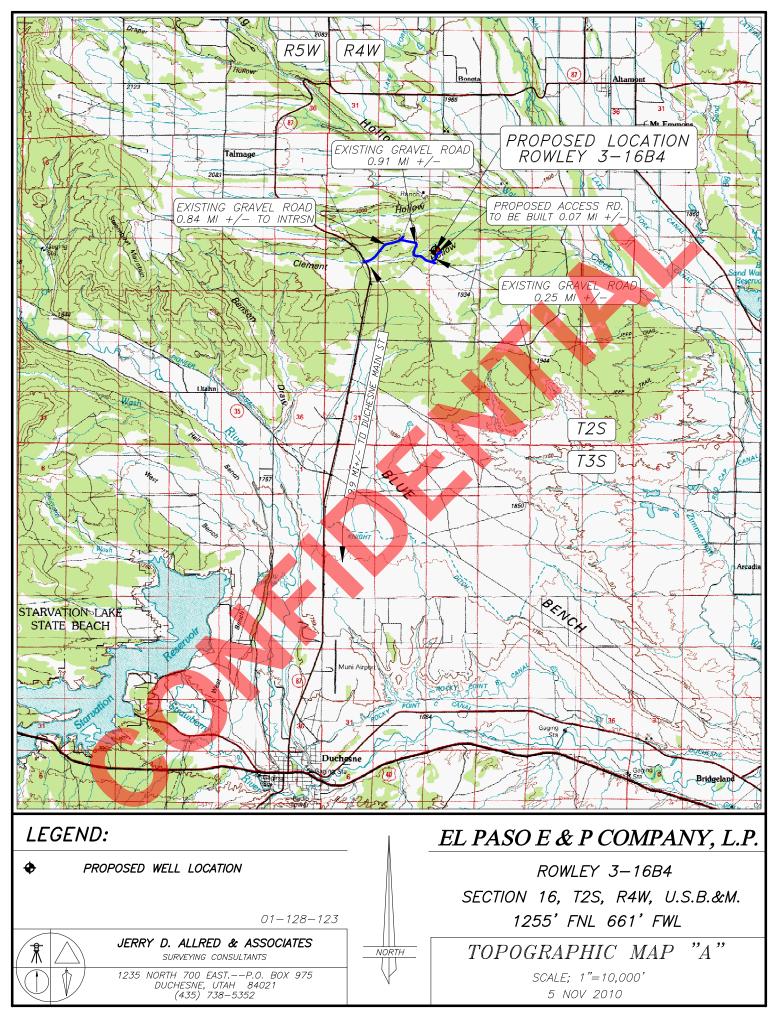
JERRY D. ALLRED, REGISTERED LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)

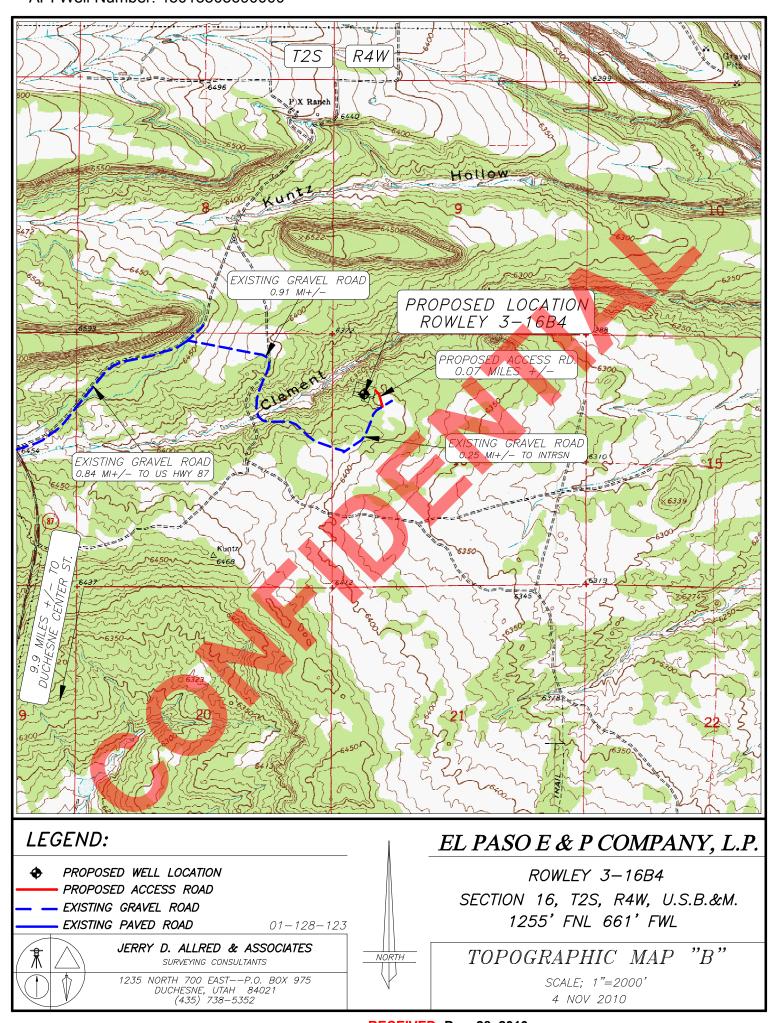


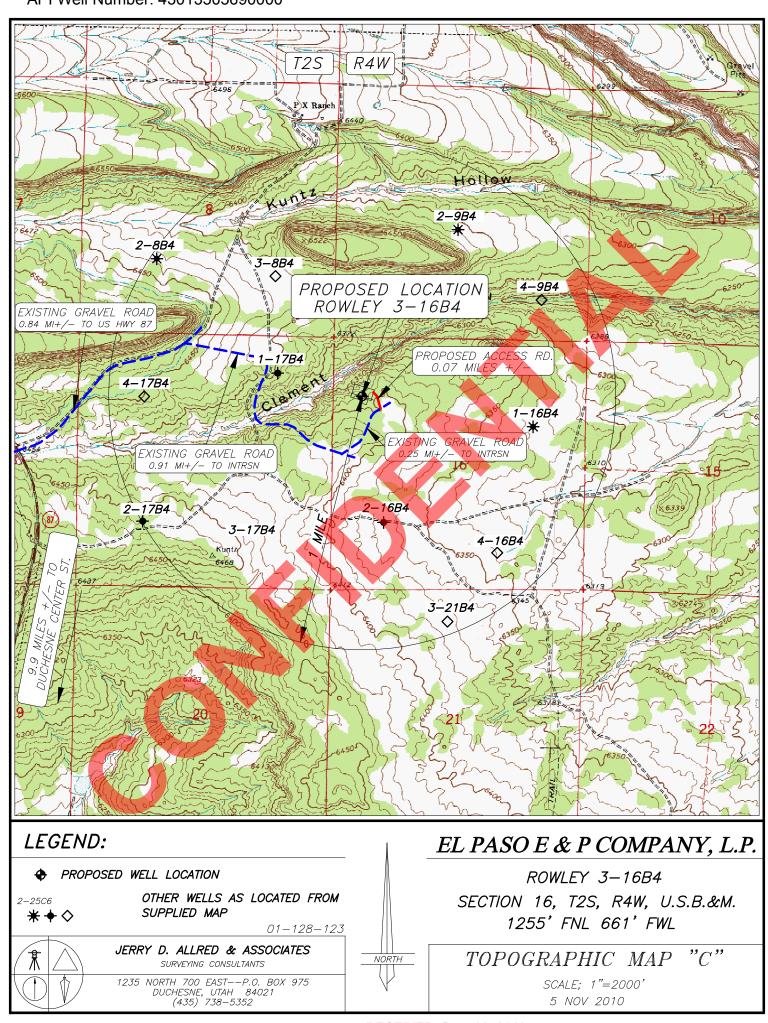
JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST—P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738–5352

3 NOV 2010 01-128-123







AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS

Catherine L. Hammock personally appeared before me, and, being duly sworn, deposes and says:

- 1. My name is Catherine L. Hammock. I am a Sr. Staff Landman for El Paso E&P Company, L.P., whose address is 1099 18th Street, Denver, Colorado 80202 ("El Paso").
- 2. El Paso is the operator of the proposed Rowley 3-16B4 well (the "Well") to be located in the W/2 of the NW/4 of Section 16, Township 2 South, Range 4 West, USB&M, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Kyle Dean Rowley, whose address is 535 New Star Dr., Salt Lake City, Utah, 84116 (the "Surface Owner").
- 3. El Paso and the Surface Owner have entered into a Damage Settlement and Release Agreement dated November 10, 2010 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.
- 4. El Paso and the Surface Owner have also entered into a Right-of-Way Agreement dated November 10, 2010 for an access road, powerline and pipeline corridor across the W/2 of the NW/4 of Section 16, Township 2 South, Range 4 West, USB&M, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

Sthewise A Hammock
Catherine L. Hammock

<u>ACKNOWLEDGMENT</u>

STATE OF COLORADO

§

CITY AND COUNTY OF DENVER

§

Before me, a Notary Public, in and for this state, on this 13th day of December, 2010, personally appeared Catherine L. Hammock, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

My Commission Expires:

NOTARY PUBLIC

RANAE L. JOHNSON NOTARY PUBLIC STATE OF COLORADO

My Commission Expires EN ED Bec 28, 2010

API Well Number: 43013505690000 Application for Permit to Drill – State DOGM Rowley 3-16B4 Duchesne County, Utah

EL PASO E&P COMPANY, L.P.

Related Surface Information

1. Current Surface Use:

Livestock Grazing and Oil and Gas Production.

2. Proposed Surface Disturbance:

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .07 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. <u>Location And Type Of Drilling Water Supply:</u>

• 43-7295 Duchesne City Water

5. <u>Existing/Proposed Facilities For Productive Well:</u>

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .07 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. <u>Construction Materials:</u>

• Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. Methods For Handling Waste Disposal:

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be place in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any
 hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a
 later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. Ancillary Facilities:

There will be no ancillary facilities associated with this project.

API Well Number: 43013505690000 Page 2 Application for Permit to Drill – State DOGM Rowley 3-16B4 Duchesne County, Utah

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 - 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 - 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 - 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 - 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 - Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Kyle Dean Rowley 535 New Star Dr Salt Lake City, UT84116 Phone: 801.541.8499

11. Other Information:

- The surface soil consists of clay, and silt.
- Flora vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses Livestock grazing and mineral exploration and production.

Operator and Contact Persons:

Construction and Reclamation: El Paso E & P Company Wayne Garner PO Box 410 Altamont, Utah 84001 435-454-3394 – Office 435-823-1490 – Cell

Regarding This APD
El Paso E & P Company
Marie OKeefe
1099 18th St. Ste. 1900
Denver, CO. 80202
303.291.6417 - Office

Drilling

El Paso E & P Company Eric Giles – Drilling Manager 1099 18th St Ste 1900 Denver, CO 80202 303.291.6446 – office 303.945.5440 - Cell

EL PASO E&P COMPANY, L.P.

ROWLEY 3-16B4 SECTION 16, T2S, R4W, U.S.B.&M.

PROCEED NORTH ON A PAVED ROAD FROM THE INTERSECTION OF U.S. HWY 40 AND S.R. 87 (AKA MAIN ST. AND CENTER ST.) IN DUCHESNE, UTAH APPROXIMATELY 9.9 MILES TO AN INTERSECTION:

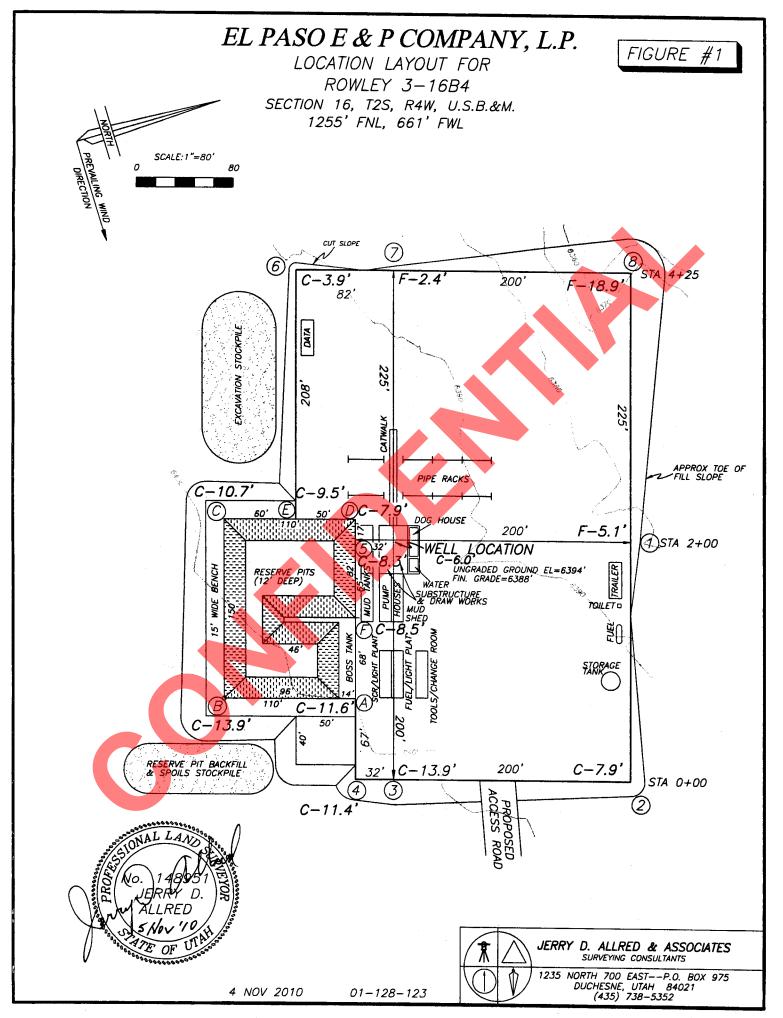
TURN RIGHT ON A GRAVEL COUNTY ROAD AND TRAVEL 0.84 MILES NORTHEASTERLY TO AN INTERSECTION;

TURN RIGHT ON GRAVEL COUNTY ROAD AND TRAVEL EASTERLY 0.91 MILES TO AN INTERSECTION;

TURN LEFT ON GRAVEL COUNTY ROAD AND TRAVEL NORTHEASTERLY 0.25 MILES TO THE BEGINNING OF THE ACCESS ROAD;

TURN LEFT AND FOLLOW ROAD FLAGS NORTHWESTERLY 0.07 MILES TO THE PROPOSED LOCATION:

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 11.97 MILES.



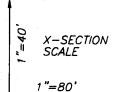
EL PASO E & P COMPANY, L.P.

LOCATION LAYOUT FOR

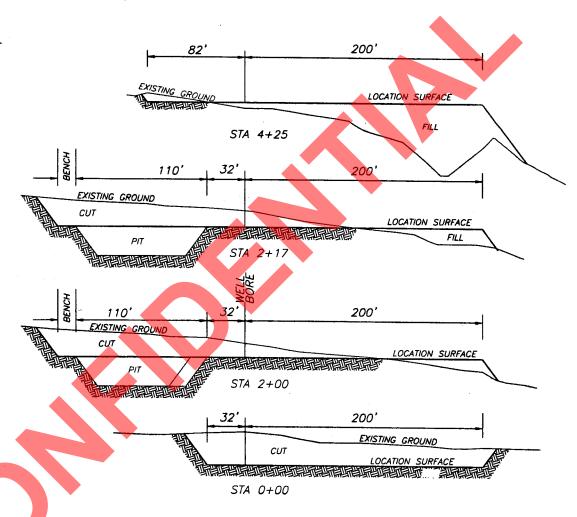
ROWLEY 3-16B4

SECTION 16, T2S, R4W, U.S.B.&M.
1255' FNL, 661' FWL

FIGURE #2



NOTE: ALL CUT/FILL SLOPES ARE 1½:1 UNLESS OTHERWISE NOTED



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 31,226 CU. YDS.

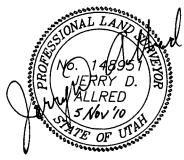
PIT CUT = 4572 CU. YDS.
TOPSOIL STRIPPING: (6") = 2883 CU. YDS.
REMAINING LOCATION CUT = 23,771 CU. YDS

TOTAL FILL

= 12,500 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=84 CU. YDS.



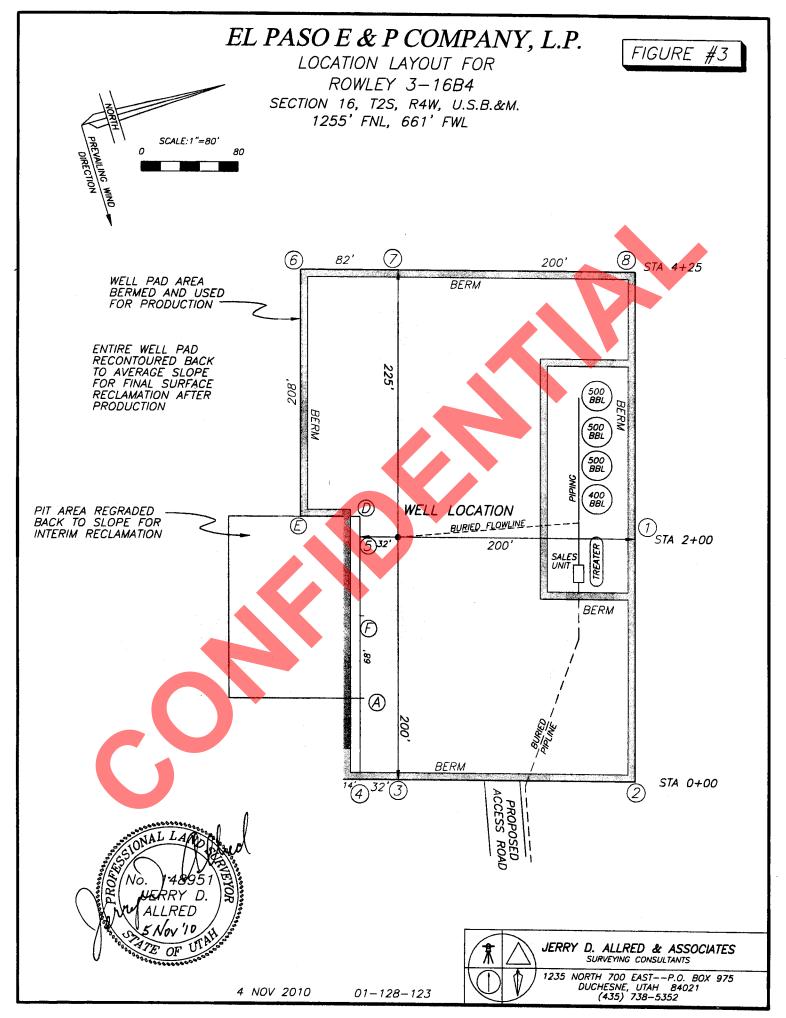


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738-5352

4 NOV 2010

01-128-123



LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY SURVEY FOR

ELPASO E&P COMPANY, L.P. ROWLEY 3-16B4

SECTION 16, T2S, R4W, U.S.B.&M. LOT 30, SUNDANCE WEST UNIT D DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY DESCRIPTION

Commencing at the Northwest Corner of Section 16, Township 2 South, Range 4 West of the Uintah Special Base and Meridian;

Thence South 26°34'10" East 1084.10 feet to the TRUE POINT OF BEGINNING; Thence South 73°18'32" East 475.00 feet;

Thence South 16°41'28" West 450.00 feet to the South line of Lot 30, Sundance West Unit D subdivision;

Thence North 73'18'32" West 475.00 feet along said South line;

Thence North 16°41'28" East 450.00 feet to the TRUE POINT OF BEGINNING, containing 4.91 acres.

ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, power line and pipeline corridor right-of-way over portions of Section 16, Township 2 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-ofway being further described as follows:

Commencing at the West Quarter Corner of said Section;

Thence North 41'24'14" East 1557.68 feet to the TRUE POINT OF BEGINNING, said point being on the North

right-of-way line of an existing road right-of-way;
Thence North 16°31'03" West 223.57 feet;
Thence North 78°01'57" West 64.81 feet to the East line of the Elpaso E&P Co. Rowley 3-1684 well location use boundary. Said right-of-way being 223.57 feet in length with the side lines being shortened or elongated to intersect said use boundary and said right-of-way lines.

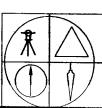
SURVĒYOR'S CERTIFICATĒ

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right—of—way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL
POINT LOCATED AT LAT. 40'19'29.81377"N AND
LONG. 110'21'24.89272"W USING THE UTAH
STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL
NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

Jerry D. Allred, Professional Land Surveyor, Certificate 148951 (Utah)



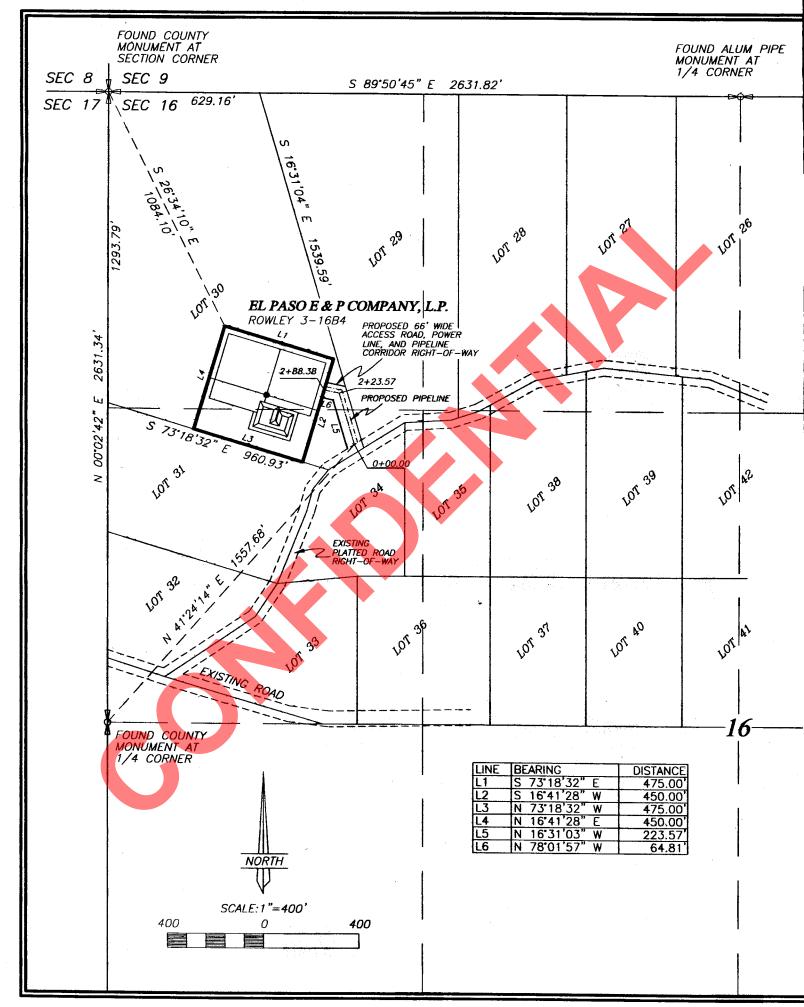
JERRY D. ALLRED AND ASSOCIATES

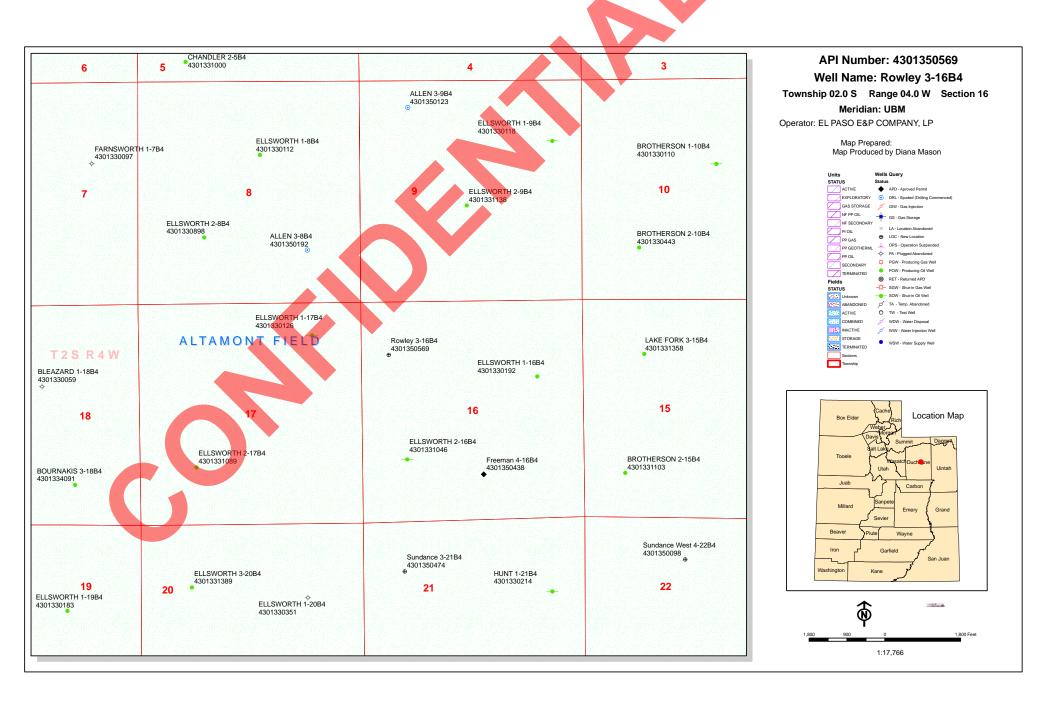
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975 DUCHESNE, UTAH 84021 (435) 738-5352

5 NOV 2010

01 - 128 - 123





BOPE REVIEW EL PASO E&P COMPANY, LP Rowley 3-16B4 43013505690000

Pressure At Previous Shoe Max BHP-.22*(Setting Depth - Previous Shoe Depth)=

Required Casing/BOPE Test Pressure=

| | L PASO E&P COMP. | | icowicy 5-10 | DT 1501 | 1000 | | |
|-----------------------------|------------------------|------------------|---------------|---------------------------------|----------|-----------------|---|
| Well Name | | EL PASO E&F | COMPANY, LP | Rowley 3-1 | 6B4 4 | 301350569000 | |
| String | | Cond | Surf | <u>I1</u> | | L1 | |
| Casing Size(") | | 13.375 | 9.625 | 7.000 | | 4.500 | |
| Setting Depth (TVD) | | 1000 | 6100 | 10985 | | 14500 | |
| Previous Shoe Setting Dept | th (TVD) | 0 | 1000 | 6100 | | 10985 | |
| Max Mud Weight (ppg) | | 9.0 | 9.0 | 10.5 | | 13.5 | |
| BOPE Proposed (psi) | BOPE Proposed (psi) | | 2000 | 5000 | <u> </u> | 10000 | |
| Casing Internal Yield (psi) | | 2730 | 5750 | 11220 | | 12410 | |
| Operators Max Anticipated | d Pressure (psi) | 10179 | | | 7 | 13.5 | |
| | | 2 | | | | | |
| Calculations | Cone | d String | D 440 M | | 3.375 | " | |
| Max BHP (psi) | | .052*Settii | ng Depth*MV | /= 468 | | DODE A L | |
| MASP (Gas) (psi) | Max | , DUD (0.12* | Setting Depth | <u> </u> | | | quate For Drilling And Setting Casing at Depth |
| | | | | 1040 | | YES | rotating head |
| MASP (Gas/Mud) (psi) | Max | к впР-(0.22* | Setting Depth |)= 248 | | YES | Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | May RHD 22*(Satting D | anth Praviou | is Shoa Danth | 7- | | | |
| | | eptii - i ieviot | is snoc Depui | 12:0 | | NO | ОК |
| Required Casing/BOPE Te | | | | 1000 | | psi | 1 100 |
| *Max Pressure Allowed @ | Previous Casing Shoe= | | | 0 | 7 | psi *Assu | mes 1psi/ft frac gradient |
| Calculations | Sur | f String | | | 9.625 | 11 | |
| Max BHP (psi) | | .052*Settii | ng Depth*MV | /= ₂₈₅₅ | | | |
| | | | | 1 | | BOPE Adec | quate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max | BHP-(0.12* | Setting Depth |)= 2123 | | NO | rotating head |
| MASP (Gas/Mud) (psi) | Max | k BHP-(0.22* | Setting Depth |) = 1 ₅₁₃ | | YES | ОК |
| | | | | | | *Can Full F | Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP22*(Setting D | epth - Previou | s Shoe Depth | 1733 | | NO | Reasonable |
| Required Casing/BOPE Te | est Pressure= | | | 4025 | | psi | |
| *Max Pressure Allowed @ | Previous Casing Shoe= | | | 1000 | | psi *Assu | mes 1psi/ft frac gradient |
| a | | | | | | 1 | |
| Calculations | 11 | String | D 440 M | | 7.000 | | |
| Max BHP (psi) | | .052*Settii | ng Depth*MV | /= 5998 | | DODE Ad- | |
| MASP (Gas) (psi) | Max | , DUD (0.12* | Satting Danth | 7_ | | | quate For Drilling And Setting Casing at Depth? |
| MASP (Gas/Mud) (psi) | | | Setting Depth | | | YES | <u> </u> |
| MASE (Gas/Mud) (psi) | Max | A DITF-(U.22* | Setting Depth |)= 3581 | | YES *Con Full E | Expected Pressure Be Held At Previous Shoe? |
| Pressure At Previous Shoe | Max BHP- 22*(Setting D | enth - Previou | is Shoe Denth |)= [4000 | | | |
| Required Casing/BOPE Te | ` - | -pai 110vi0t | onoc Depui | 1.020 | | psi | OK |
| *Max Pressure Allowed @ | | | | 7854 | | | mes 1psi/ft frac gradient |
| Wiax Fressure Allowed to | Trevious Casing Silve- | | | 5750 | | psi *Assu | mes tpsi/it frac gradient |
| Calculations | L1 | String | | - | 4.500 | " | |
| Max BHP (psi) | | .052*Settii | ng Depth*MV | V= 10179 | | | |
| | | | | | | BOPE Adec | quate For Drilling And Setting Casing at Depth? |
| MASP (Gas) (psi) | Max | BHP-(0.12* | Setting Depth |)= 8439 | | YES | |
| MASP (Gas/Mud) (psi) | Max | k BHP-(0.22* | Setting Depth |)= 6989 | | YES | OK |
| | | | | | | *Can Full E | Expected Pressure Be Held At Previous Shoe? |

RECEIVED: Apr. 25, 2011

YES

psi

9406

8687

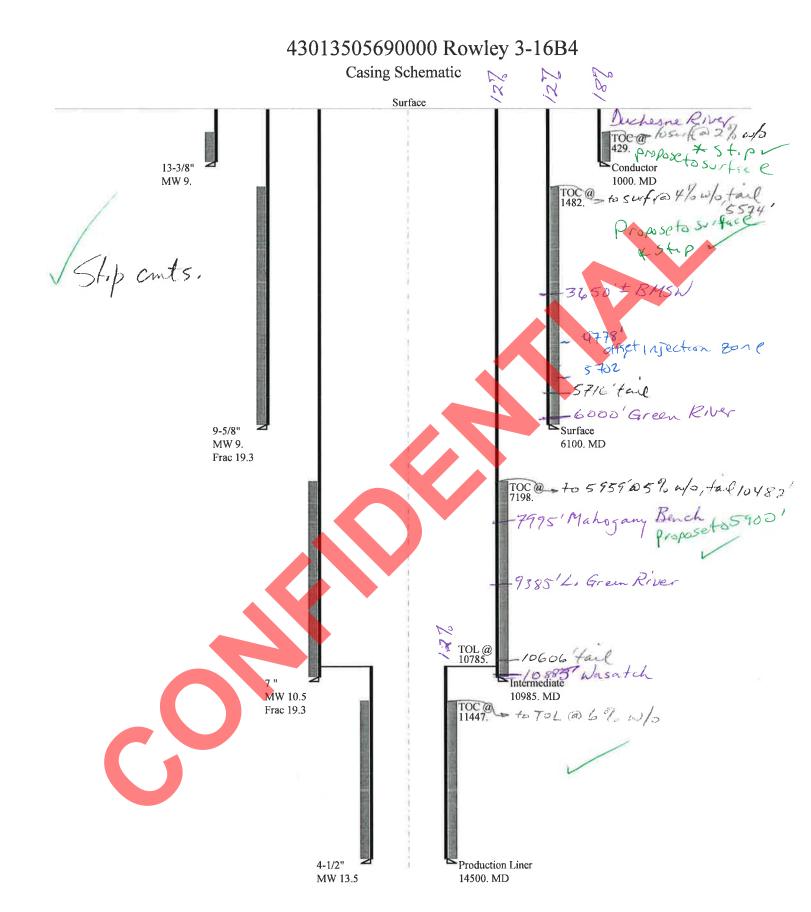
*Max Pressure Allowed @ Previous Casing Shoe=

10985

psi

*Assumes 1psi/ft frac gradient





Well name:

43013505690000 Rowley 3-16B4

Operator:

EL PASO E&P COMPANY, LP

Project ID:

String type:

Conductor

43-013-50569

Location:

DUCHESNE COUNTY

> Minimum design factors: **Environment:**

<u>Collapse</u>

Mud weight:

Design parameters:

9.000 ppg

Collapse: Design factor

H2S considered?

No 74 °F

Design is based on evacuated pipe.

1.125

Surface temperature: Bottom hole temperature: 88 °F

Temperature gradient: Minimum section length: 1.40 °E/100ft 100 ft

Burst:

Design factor

1.00

Cement top:

429 ft

<u>Burst</u>

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: Calculated BHP

347 psi 0.120 psi/ft

467 psi

Tension:

8 Round STC:

8 Round LTC:

Buttress: Premium:

1.60 (J) 1.50 (J) Body yield: 1.50 (B)

Non-directional string. 1.80 (J)

Tension is based on air weight.

Neutral point:

867 ft

1.70 (J)

| Run Seq | Segment Length (ft) 1000 | Size (in) 13.375 | Nominal Weight (lbs/ft) 54.50 | Grade J-55 | End Finish ST&C | True Vert Depth (ft) 1000 | Measured Depth (ft) 1000 | Drift Diameter (in) 12.49 | Est. Cost (\$) 12407 |
|------------|-----------------------------------|------------------------|--|------------------------|----------------------------|---------------------------|-----------------------------------|------------------------------------|-------------------------------|
| Run Seq | Collapse Load (psi) | Collapse Strength | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (kips) | Tension Strength (kips) | Tension Design Factor |
| 1 | (psi) 467 | (psi) 1130 | 2.417 | 467 | 2730 | 5.84 | 54.5 | 514 | 9.43 J |

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 15,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013505690000 Rowley 3-16B4

Operator:

EL PASO E&P COMPANY, LP

String type:

Surface

Project ID:

43-013-50569

Location:

Collapse

DUCHESNE

COUNTY

Environment:

Minimum design factors:

Collapse: Design factor

1.125

H2S considered?

No

9.000 ppg Mud weight: Internal fluid density: 1.000 ppg

Surface temperature: Bottom hole temperature:

74 °F 159 °F

Temperature gradient:

1.40 °E/100ft

Minimum section length:

100 ft

1,482 ft

Burst:

Design factor

1.00

Cement top:

Non-directional string.

Burst

Max anticipated surface

No backup mud specified.

pressure:

Design parameters:

4,674 psi 0.120 psi/ft

Calculated BHP

Tension:

Neutral point:

Tension is based on air weight.

Internal gradient: 5,406 psi

8 Round STC: 8 Round LTC:

Buttress: Premium:

Body yield:

1.70 (J) 1.60 (J) 1.50 (J)

1.80 (J)

1.50 (B)

5,283 ft

Re subsequent strings:

Next setting depth:

10,985 ft

Next mud weight: Next setting BHP: Fracture mud wt:

10.500 ppg 5.992 psi 19.250 ppg

Fracture depth: Injection pressure:

6,100 ft 6,100 psi

| Run Seq | Segment Length (ft) 6100 | Size (in) 9.625 | Nominal Weight (lbs/ft) 40.00 | Grade N-80 | End Finish LT&C | True Vert Depth (ft) 6100 | Measured Depth (ft) 6100 | Drift Diameter (in) 8.75 | Est. Cost (\$) 77621 |
|------------|-----------------------------------|---------------------------------------|--|--------------------------------|------------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|---------------------------------------|
| Run Seq | Collapse Load (psi) 2535 | Collapse Strength (psi) 3090 | Collapse Design Factor 1.219 | Burst Load (psi) 5406 | Burst Strength (psi) 5750 | Burst Design Factor 1.06 | Tension Load (kips) 244 | Tension Strength (kips) 737 | Tension Design Factor 3.02 J |

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 15,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6100 ft, a mud weight of 9 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013505690000 Rowley 3-16B4

Operator:

EL PASO E&P COMPANY, LP

Intermediate

Project ID:

String type:

43-013-50569

Location:

DUCHESNE COUNTY

Design parameters:

Collapse Mud weight:

10.500 ppg

Collapse: Design factor

Minimum design factors: **Environment:** H2S considered?

No 74 °F

Design is based on evacuated pipe.

1.125

Surface temperature: Bottom hole temperature: Temperature gradient:

228 °F 1.40 °E/100ft

Minimum section length:

100 ft

Burst:

Design factor

1.00

7,198 ft Cement top:

Burst

Max anticipated surface

No backup mud specified.

(psi)

5992

1

pressure:

6,979 psi 0.220 psi/ft

Internal gradient: Calculated BHP

9.396 psi

8 Round STC:

8 Round LTC:

Premium:

Body yield:

Tension:

1.80 (J) 1.70 (J) Buttress: 1.60 (J)

1.50 (J) 1.50 (B)

Tension is based on air weight. Neutral point: 9,239 ft Non-directional string.

Re subsequent strings:

Next setting depth:

Next mud weight: Next setting BHP:

13.500 ppg 10,169 psi 19.250 ppg

14,500 ft

Fracture mud wt: Fracture depth: Injection pressure:

10,985 ft 10,985 psi

Est.

Cost

(\$)

124049

Run Segment Nominal Lenath Size Weight Sea (ft) (lbs/ft) (in) 10985 29.00 1 Collapse Collapse Collapse Run Load Seq

Strength Design (psi) Factor 8530 1.424

Grade P-110

Burst

Load

(psi) 9396

Burst Strength (psi) 11220

End

Finish

LT&C

Burst Design **Factor** 1.19

True Vert

Depth

(ft)

10985

10985 **Tension** Load

Measured

Depth

(ft)

(kips)

318.6

Tension Strength (kips) 797

Drift

Diameter

(in)

6.059

Tension Design Factor 2.50 J

Prepared by: Helen Sadik-Macdonald Div of Oil, Gas & Mining

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 15,2011 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10985 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43013505690000 Rowley 3-16B4

Operator:

EL PASO E&P COMPANY, LP

String type:

Production Liner

Project ID:

43-013-50569

Location:

DUCHESNE COUNTY

> **Environment:** Minimum design factors:

Collapse

Mud weight: Internal fluid density:

Design parameters:

13.500 ppg 1.000 ppg

Collapse: Design factor

1.125

H2S considered? Surface temperature:

No 74 °F 277 °F Bottom hole temperature:

Temperature gradient: 1.40 °E/100ft Minimum section length: 1,000 ft

Burst:

Design factor

1.00

1.80 (J) 1.80 (J)

1.60 (J)

1.50 (J)

1.60 (B)

1.22

Cement top:

11,447 ft

Burst

Max anticipated surface

pressure: Internal gradient: Calculated BHP

6,979 psi 0.220 psi/ft

10,169 psi

No backup mud specified.

9416

Tension:

10169

8 Round STC: 8 Round LTC: **Buttress:**

Premium: Body yield:

Tension is based on air weight. Neutral point: 13,763 ft Liner top

50

10,785 ft

Non-directional string.

| Run | Segment | | Nominal | | End | True Vert | Measured | Drift | Est. |
|-----|----------|----------|----------|-------|-----------------------|-----------|----------|----------|---------|
| Seq | Length | Size | Weight | Grade | F <mark>ini</mark> sh | Depth | Depth | Diameter | Cost |
| - | (ft) | (in) | (lbs/ft) | | | (ft) | (ft) | (in) | (\$) |
| 1 | 3700 | 4.5 | 13.50 | P-110 | LT&C | 14500 | 14500 | 3.795 | 20733 |
| Run | Collapse | Collapse | Collapse | Burst | Burst | Burst | Tension | Tension | Tension |
| Seq | Load | Strength | Design | Load | Strength | Design | Load | Strength | Design |
| | (psi) | (psi) | Factor | (psi) | (psi) | Factor | (kips) | (kips) | Factor |

12410

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Mining

10680

1.134

Phone: 801 538-5357 FAX: 801-359-3940

Date: February 15,2011 Salt Lake City, Utah

338

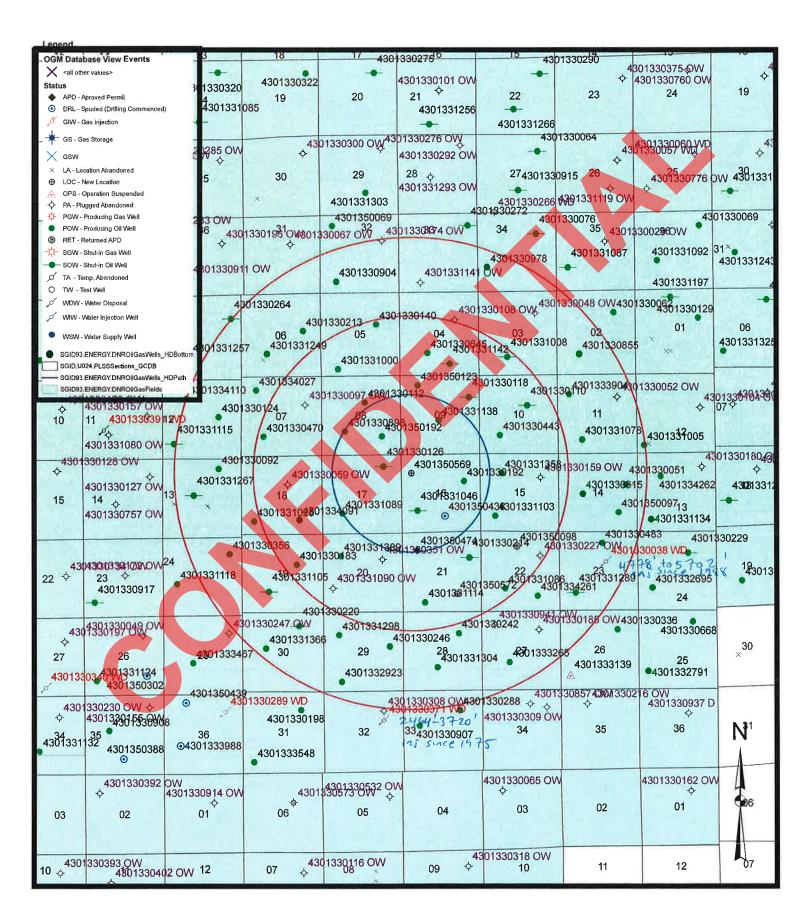
6.77 J

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 14500 ft, a mud weight of 13.5 ppg An Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Injection Well Area of Review



ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EL PASO E&P COMPANY, LP

Well Name Rowley 3-16B4

API Number 43013505690000 APD No 3340 Field/Unit ALTAMONT

Location: 1/4,1/4 NWNW **Sec** 16 **Tw** 2.0S **Rng** 4.0W 1255 FNL 661 FWL **GPS Coord (UTM)** 555428 4462316 **Surface Owner** Kyle Dean Rowley

Participants

Kyle Rowley (landowner); Wayne Garner (El Paso); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

Proposed wellsite is located 9.9 miles north of Duchesne Utah along highway 87, then easterly along existing county roads for another 0.91 miles, then north into residential acreage another 0.25 miles to access road. This site is located in bench country and on the northern reaches of Blue Bench. Immediately north of this location Clement Hollow cuts easterly, then continues for another 2.5 miles where it joins Pigeon Water Creek. Further north is Kuntz and Big Hollow and the town of Bonneta. A couple miles west some farmland is found, lands that begin to break off into Benson Draw, a series of canyons that drain southward into the Duchesne River. The topography at the wellsite is pinion/juniper with sandstone outcroppings. The surface slopes to the north, with thirteen feet of cut on the southwest corner and nineteen feet of fill on the northwest. During our presite visit there was eighteen inches of snow on site.

Surface Use Plan

Current Surface Use

Residential

New Road Miles Well Pad Src Const Material Surface Formation

0.07 Width 282 Length 425 Onsite UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Pinion/Juniper, sagebrush, rabbit brush and oak, over a foot of snow; potential mule deer, elk, coyote, fox, and smaller mammals native to region found in PJ habitat.

Soil Type and Characteristics

Reddish blow sand with some clays, along with underlying sandstone or ledge rock.

Erosion Issues Y

Sedimentation Issues Y

Site Stability Issues Y

Drainage Diverson Required? N

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RECEIVED: Apr. 26, 2011

Berm Required? Y

Erosion Sedimentation Control Required? Y

To prevent sediment or erosion below or north of location.

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources? N

Reserve Pit

| Site-Specific Factors | Site Ranking | | | | |
|---|-------------------|----|---------------------|--|--|
| Distance to Groundwater (feet) | >200 | 0 | | | |
| Distance to Surface Water (feet) | >1000 | 0 | | | |
| Dist. Nearest Municipal Well (ft) | >5280 | 0 | | | |
| Distance to Other Wells (feet) | >1320 | 0 | | | |
| Native Soil Type | High permeability | 20 | | | |
| Fluid Type | TDS>5000 and | 10 | | | |
| Drill Cuttings | Normal Rock | 0 | | | |
| Annual Precipitation (inches) | | 0 | | | |
| Affected Populations | | | | | |
| Presence Nearby Utility Conduits | Not Present | 0 | | | |
| | Final Score | 30 | 1 Sensitivity Level | | |

Characteristics / Requirements

Reserve pit staked along southern portion of lease in 10+ feet of cut, measuring 110' wide and 150' long and 12 feet deep with prevailing winds from the west, and the wellhead to the north.

Closed Loop Mud Required? Y Liner Thickness 16 Pit Underlayment Required? Y

Other Observations / Comments

Signed landowner agreement in place, landowner showed up but did not walk into location, El Paso has moved this location attempting to appease the surface owner, there wasn't any surface issues such as grazing or fencing mentioned, surface slopes to the north into Clement Hollow.

| Dennis Ingram | 1/26/2011 |
|---------------|-------------|
| Evaluator | Date / Time |
| | |
| | |
| | |
| | |
| | |

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RECEIVED: Apr. 26, 2011

Application for Permit to Drill Statement of Basis

Utah Division of Oil, Gas and Mining

Page 1

APD No API WellNo Status Well Type Surf Owner CBM
3340 43013505690000 LOCKED OW P No
Operator EL PASO E&P COMPANY, LP Surface Owner-APD Kyle Dean Rowley

Well Name Rowley 3-16B4 Unit

Field ALTAMONT Type of Work DRILL

Location NWNW 16 2S 4W U 1255 FNL 661 FWL GPS Coord (UTM) 555428E 4462321N

Geologic Statement of Basis

4/26/2011

El Paso proposes to set 1,000 feet of conductor and 6,100 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 3,650 feet. A search of Division of Water Rights records indicates that there are over 40 water wells within a 10,000 foot radius of the center of Section 16. Five wells are located within 1/2 mile of the proposed location. These five wells range in depth from 150 to 500 feet. Listed use is domestic, irrigation, oil well drilling and stock watering. The wells in this area probably produce water from the Duchesne River Formation . El Paso should consider obtaining a background water analysis on any water wells loacated adjacent to the proposed well. The proposed casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator
Date / Time

Surface Statement of Basis

The Division scheduled a presite visit with El Paso and the landowner on said date, to take input and address issues regarding the construction of this location. Kyle Rowley was given as the landowner of record and was therefore invited by the Division to the onsite. Mr. Rowley has signed a landowner agreement and did not have any comment or issues with the construction of this well pad.

The surface consists of typical Pinion/Juniper trees with sagebrush that is found in the Blue Bench area with sandstone outcroppings and underlying ledge rock where it slopes into Clement Hollow. The surface was covered with eighteen inches of snow, but the underlying ground is typical reddish, blow sand with some clays. Erosion controls and berming should be utilized as necessary to prevent sediment from the location from leaving well pad down into the canyon. Location Berming is also needed to prevent sediment issues along the northern boundary.

The underlying sandstone and ledge rock may require blasting to construction the proposed reserve pit. Care should be taken to prepare a smooth surface so the 16 mil synthetic liner will not tear. The operator shall install a padding if needed and a 16 mil synthetic liner to prevent floods from leaving the reserve pit. No other issues were noted during the presite meeting.

Dennis Ingram 1/26/2011
Onsite Evaluator Date / Time

Conditions of Approval / Application for Permit to Drill

Category Condition

Pits A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the

reserve pit.

Surface The well site shall be bermed to prevent fluids from leaving the pad.

Surface Drainages adjacent to the proposed pad shall be diverted around the location.

RECEIVED: Apr. 26, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/28/2010 API NO. ASSIGNED: 43013505690000

WELL NAME: Rowley 3-16B4

PHONE NUMBER: 303 291-6417 **OPERATOR:** EL PASO E&P COMPANY, LP (N3065)

CONTACT: Marie Okeefe

PROPOSED LOCATION: NWNW 16 020S 040W **Permit Tech Review:**

> **SURFACE: 1255 FNL 0661 FWL** Engineering Review:

BOTTOM: 1255 FNL 0661 FWL **Geology Review:**

COUNTY: DUCHESNE

LATITUDE: 40.31146 LONGITUDE: -110.34770 NORTHINGS: 4462321.00 UTM SURF EASTINGS: 555428.00

FIELD NAME: ALTAMONT LEASE TYPE: 4 - Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH **LEASE NUMBER:** Fee

Unit:

LOCATION AND SITING:

SURFACE OWNER: 4 - Fee COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

Oil Shale 190-5

Bond: STATE/FEE - 400JU0708

R649-2-3.

PLAT

Potash R649-3-2. General

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Water Permit: 43-7295 Duchesne City Water Board Cause No: Cause 139-84

Effective Date: 12/31/2008 RDCC Review:

Siting: 660' Fr Drl U Bdry & 1320' Fr Other Wells ✓ Fee Surface Agreement

Intent to Commingle R649-3-11. Directional Drill

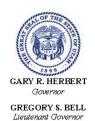
Comments: Presite Completed

Commingling Approved

Stipulations:

5 - Statement of Basis - bhill 8 - Cement to Surface -- 2 strings - hmacdonald 11 - Cement Productive Zones - hmacdonald

API Well No: 43013505690000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Rowley 3-16B4 **API Well Number:** 43013505690000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 4/26/2011

Issued to:

EL PASO E&P COMPANY, LP, 1099 18th ST, STE 1900, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Production casing shall be cemented 100' minimum above producing formations encountered while drilling and 100' minimum above any zones tested.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

API Well No: 43013505690000

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 office
- Dustin Doucet 801-538-5281 office

801-733-0983 - after office hours

• Dan Jarvis 801-538-5338 - office

801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

| Name of Con | mpany: | EL PASO E&P COMPANY, LP | | | | | | | | | | | |
|--------------|-------------|-------------------------|-----------|------|---------------|--------------|--|--|--|--|--|--|--|
| Well Name | *: | ROWLEY | 3-16B4 | | | | | | | | | | |
| Api No: | 43-013-505 | 69 | Lease Typ | oe | FEE | | | | | | | | |
| Section 16 | Township_ | 02S Ra | ange 04W | Coun | ty DUC | CHESNE | | | | | | | |
| Drilling Cor | ntractor | PETE MA | RTIN DRIL | LING | _RIG # | BUCKET | | | | | | | |
| SPUDDE | D: | | | | | | | | | | | | |
| | Date | 07/21/201 | 1 | | | | | | | | | | |
| | Time | 10:00 AM | <u> </u> | | | | | | | | | | |
| | How | DRY | | | | | | | | | | | |
| Drilling w | ill Commend | ce: | | | | | | | | | | | |
| Reported by | | WAY | NE GARNE | R | | | | | | | | | |
| Telephone # | | (435) | 454-4236 | | | | | | | | | | |
| Date | 07/21/2011 | Signed | CHD | | | | | | | | | | |

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

| | | | ENTITY ACTION | FORM | | | | |
|-------------------------------------|--|---|--------------------------------------|---------------|---|----------|------------|---------------------------------|
| Operator: | El Paso | E&P Company, L.P. | | Ope | rator Ac | count Nu | ımber: _N | 3065 |
| Address: | 1001 L | ouisiana, Rm 2730D | | _ | | | | |
| | city Ho | uston | | - | | | | |
| | state T | X | _{zip} 77002 | _ | P | hone Nu | mber: (| 713) 420-5038 |
| Well 1 | | | | | | | | |
| API Nu | mber | Well | Name | QQ | Sec | Twp | Rng | County |
| 43013 | 50569 | Rowley 3-16B4 | | NWNW | 16 | 28 | 4W | Duchesne |
| Action | Code | Current Entity Number | New Entity Number | S | pud Da | te | Enti E | ity Assignment ffective Date |
| А | 1 | 99999 | 18151 | 7 | //21/201 | 1 | 8 | 14/11 |
| Comment GR - | ts: WS | | | | CON | IFIDE | NTIĂI | |
| Well 2 | | | | | | | | |
| API Nu | mber | Well | Name | QQ | Sec | Twp | Rng | County |
| Action | Code | Current Entity Number | New Entity Number | Sı | pud Dai | l e | | ty Assignment ffective Date |
| Commen | ls: | | | | | | | |
| Well 3 | | | | | | | | |
| API Nu | mber | Well | Name | QQ | Sec | Twp | Rng | County |
| Action | Code | Current Entity Number | New Entity Number | S | pud Dat | 6 | | ty Assignment fective Date |
| Comment | s: | | | | | · | | |
| B - Add r C - Re-as D - Re-as | olish new e new well to ssign well t ssign well t | entity for new well (single existing entity (group or from one existing entity to from one existing entity to n 'comments' section) | unit well) o another existing entity | Name Signa | ia S. Go (Please W. W. ature Regulato | Print) | <u>Can</u> | <i>iz</i> 7/29/2011 |

(5/2000)

AUG 0 1 2011

| | | | FORM 9 |
|--|--|---|---|
| | STATE OF UTAH | | IONA |
| | DEPARTMENT OF NATURAL RESOURDIVISION OF OIL, GAS, AND M | | 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee |
| | RY NOTICES AND REPORT | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | esals to drill new wells, significantly deep ugged wells, or to drill horizontal laterals s. | | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP | | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston, | | HONE NUMBER:)38 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section: 1 | <pre>IP, RANGE, MERIDIAN: 6 Township: 02.0S Range: 04.0W Meridi</pre> | ian: U | STATE: UTAH |
| 11. CHE | ECK APPROPRIATE BOXES TO INDIC | CATE NATURE OF NOTICE, REPORT | Γ, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ☐ ACIDIZE | ✓ ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | CHANGE WELL NAME |
| 9/1/2011 | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT | DEEPEN | FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion: | OPERATOR CHANGE | PLUG AND ABANDON | ☐ PLUG BACK |
| _ | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| Report Date: | ☐ WILDCAT WELL DETERMINATION | OTHER | OTHER: |
| El Paso plans to set 1 | OMPLETED OPERATIONS. Clearly show all p 13 3/8" casin @ 900' instead to be set at 4400' instead of | of 1000' as permitted. The the permitted 6100'. | |
| NAME (PLEASE PRINT) Maria S. Gomez | PHONE NUMBE 713 420-5038 | ER TITLE Sr. Regulatory Analyst | |
| SIGNATURE | | DATE | |
| N/A | | 8/31/2011 | |



The Utah Division of Oil, Gas, and Mining

- State of UtahDepartment of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013505690000 Both strings of casing should be cemented from setting depth back to the surface.

| | STATE OF UTAH | | FORM 9 |
|--|---|---|--|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MI | | 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee |
| | RY NOTICES AND REPORTS | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | sals to drill new wells, significantly deepe igged wells, or to drill horizontal laterals. | | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP | | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston, | | ONE NUMBER: 8 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNW Section: 16 | P, RANGE, MERIDIAN: 5 Township: 02.0S Range: 04.0W Meridia | n: U | STATE: UTAH |
| 11. CHE | CK APPROPRIATE BOXES TO INDICA | TE NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ACIDIZE | ☐ ALTER CASING | CASING REPAIR |
| □ NOTICE OF INTENT | CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | CHANGE WELL NAME |
| Approximate date work will start: | CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion. | OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| | TUBING REPAIR | User or flare | WATER DISPOSAL |
| ✓ DRILLING REPORT | | | |
| Report Date: 11/11/2011 | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | APD EXTENSION |
| ,, | WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |
| 12. DESCRIBE PROPOSED OR CO | MPLETED OPERATIONS. Clearly show all pe Waiting to frac. | ertinent details including dates, depths, v | volumes, etc. |
| | | | Accepted by the |
| | | | Utah Division of |
| | | | l, Gas and Mining |
| | | FOF | R RECORD ONLY |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| NAME (PLEASE PRINT) Maria S. Gomez | PHONE NUMBER 713 420-5038 | R TITLE Sr. Regulatory Analyst | |
| SIGNATURE | / 13 420-3030 | DATE | |
| N/A | | 11/11/2011 | |

WESTERN

1 General

1.1 Customer Information

| Company | WESTERN |
|----------------|---------|
| Representative | |
| Address | |

1.2 Well Information

| Well | ROWLEY 3-16B4 | | | | | | | | | |
|-----------------|--------------------------------------|------------------------------|---------------|--|--|--|--|--|--|--|
| Project | ALTAMONT FIELD | Site | ROWLEY 3-16B4 | | | | | | | |
| Rig Name/No. | PROPETRO/5, PETE MARTIN/, PRECISION | Event | DRILLING LAND | | | | | | | |
| | DRILLING/404 | | | | | | | | | |
| Start Date | 8/3/2011 | End Date | | | | | | | | |
| Spud Date | 9/15/2011 | UWI | ROWLEY 3-16B4 | | | | | | | |
| Active Datum | KB @6,405.0ft (above Mean Sea Level) | | · | | | | | | | |
| Afe | 143627/42978 / ROWLEY 3-16B4 | 143627/42978 / ROWLEY 3-16B4 | | | | | | | | |
| No./Description | | | | | | | | | | |

2 Summary

2.1 Operation Summary

| Date | | ime irt-End | Duratio n | Phase | Activit | Sub | OP Code | MD From | Operation |
|-----------|-------|----------------|--------------|---------|---------|-----|------------|---------|--|
| | | | (hr) | | | | | . , | |
| 7/27/2011 | 6:00 | 6:00 | 24.00 | DRLSURF | 07 | | Р | 0.0 | DRILL AND SET CONDUCTOR |
| 8/3/2011 | 20:00 | 1:00 | 5.00 | MIRU | 01 | | Р | 40.0 | RIG UP PRO PETRO |
| | 1:00 | 5:00 | 4.00 | DRLSURF | 07 | | Р | 40.0 | DRILL FROM 40' TO 160' |
| 8/4/2011 | 6:00 | 19:00 | 13.00 | DRLSURF | 07 | | Р | 40.0 | DRILL FROM 160' TO 850' AND WATER OUT |
| | 19:00 | 20:00 | 1.00 | DRLSURF | 15 | | Р | 850.0 | CIRCULATE |
| | 20:00 | 21:00 | 1.00 | DRLSURF | 13 | | Р | 850.0 | TRIP OUT HOLE |
| | 21:00 | 22:00 | 1.00 | DRLSURF | 13 | | Р | 850.0 | TALLY COLLARS, RIG SERVICE |
| | 22:00 | 3:00 | 5.00 | DRLSURF | 13 | | Р | 850.0 | TRIP IN HOLE WASH TO BOTTOM |
| | 3:00 | 5:00 | 2.00 | DRLSURF | 07 | | Р | 850.0 | DRILL FROM 840' TO 890' |
| 8/5/2011 | 6:00 | 9:00 | 3.00 | DRLSURF | 07 | | Р | 890.0 | DRILL FROM 890' TO 980 |
| | 9:00 | 11:00 | 2.00 | DRLSURF | 15 | | Р | 980.0 | CIRCULATE |
| | 11:00 | 14:00 | 3.00 | DRLSURF | 13 | | Р | 980.0 | TRIP OUT HOLE |
| | 14:00 | 16:00 | 2.00 | CASSURF | 24 | | Р | 980.0 | RUN 13 3/8 CASING RUN 21 JOITNS OF 13 3/8 54.5# STC 8RNF RNG 3 CASING WITH 6 BOW SPRING CENTRALIZERS. CASING SET AT 916' GROUND LEVEL |
| | 16:00 | 18:30 | 2.50 | CASSURF | 25 | | Р | 980.0 | CEMENT WITH 184 BBLS, 950 SX 15.8 PPG, 1.15 YIELD, 5 GAL/SK WATER. DROPPED PLUGGED ON FLY. DISPLACED W/ 134 BBLS WATER. BUMPED PLUG @ 18:30. ANNULUS HOLDING. 34 BBLS CEMENT RETURNS. RD & RELEASE PRO PETRO @ 21:00 |
| | 18:30 | 21:00 | 2.50 | RDMO | 42 | | Р | 980.0 | RIG DOWN MOVE OUT, |
| 9/13/2011 | 6:00 | 7:00 | 1.00 | RDMO | 41 | | Р | 980.0 | SAFETY MEETING WITH WEST ROC TRUCKING AND DRILLING CREWS |
| | 7:00 | 19:00 | 12.00 | MIRU | 01 | | Р | 980.0 | RIG 85% MOVED IN 20% RIGGED UP |
| | 19:00 | 6:00 | 11.00 | MIRU | 01 | | Р | 980.0 | WAIT ON DAY LIGHT |
| 9/14/2011 | 6:00 | 7:00 | 1.00 | MIRU | 41 | | Р | 980.0 | PRE JOB SAFETY MEETING |
| | 7:00 | 3:30 | 20.50 | MIRU | 01 | | Р | 980.0 | RIG UP RIG, TOP DRIVE, RIG 100% RIGGED UP, RIG ON DAY RATE @ 03:30 |
| | 3:30 | 6:00 | 2.50 | MIRU | 01 | | Р | 980.0 | WELD ON WELL HEAD, NIPPLE UP DIVERTER AND ALL BOPE LINES |
| 9/15/2011 | 6:00 | 13:00 | 7.00 | DRLSURF | 28 | | Р | 980.0 | NIPPLE UP DIVERTER, KILL LINE, HCR LINES, FLOW LINE, GAS BUSTER LINES AND FLARE LINES |

WESTERN

| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|-----------|-------|---------------|--------------|---------|--------------|-----|------------|---------------------------------------|--|
| | 13:00 | 22:00 | 9.00 | DRLSURF | 30 | | P | 980.0 | HELD PRE JOB SAFETY MEETING, PRESSURE TEST ANNULAR / HCR / INSIDE KILL & INSIDE B.O.P. 250 PSI LOW & 2500 PSI HIGH. TEST MANUAL & HYDRAULIC TOP DRIVE VALVE 250 PSI LOW & 5000 PSI HIGH, TESTING STAND PIPE AND KILL LINE 250 PSI LOW & 3000 PSI HIGH |
| | 22:00 | 23:00 | 1.00 | DRLSURF | 28 | | Р | 980.0 | PRE SPUD RIG INSPECTION |
| | 23:00 | 2:30 | 3.50 | DRLSURF | 14 | | Р | 980.0 | PU RIH W/ BHA #1 |
| | 2:30 | 3:30 | 1.00 | DRLSURF | 17 | | Р | 980.0 | SLIP & CUT DRILL LINE |
| | 3:30 | 4:30 | 1.00 | DRLSURF | 14 | | Р | 980.0 | PU RIH W/ DP TAGGED CMT @ 873' |
| | 4:30 | 5:30 | 1.00 | DRLSURF | 31 | | Р | 980.0 | PRESSURE TEST CASING TO 1000 PSI |
| | 5:30 | 6:00 | 0.50 | DRLSURF | 72 | | Р | 980.0 | DRILL CMT, FLOAT SHOE & GUIDE SHOE |
| 9/16/2011 | 6:00 | 7:30 | 1.50 | DRLSURF | 72 | | Р | | DRILL CMT, FLOAT COLLAR @ 886' SHOE (933') |
| | 7:30 | 13:00 | 5.50 | DRLSURF | 07 | | Р | | DRILL F/ 997' - 1536' |
| | 13:00 | 13:30 | 0.50 | DRLSURF | 12 | | Р | | RIG SERVICE |
| | 13:30 | 2:30 | 13.00 | DRLSURF | 07 | | Р | · · · · · · · · · · · · · · · · · · · | DRILL F/ 1536' - 2841' |
| | 2:30 | 3:00 | 0.50 | DRLSURF | 12 | | Р | · · · · · · · · · · · · · · · · · · · | RIG SERVICE |
| | 3:00 | 6:00 | 3.00 | DRLSURF | 07 | | P | · · | DRILL F/ 2841' - 3040' |
| 9/17/2011 | 6:00 | 13:00 | 7.00 | DRLSURF | 07 | | P | , | DRILL F/ 3040' - 3587' |
| 0/11/2011 | 13:00 | 13:30 | 0.50 | DRLSURF | 12 | | P | · · | RIG SERVICE |
| | 13:30 | 3:30 | 14.00 | DRLSURF | 07 | | P | , | DRILL F/ 3587' - 4333' |
| | 3:30 | 4:00 | 0.50 | DRLSURF | 12 | | P | · · | RIG SERVICE |
| | 4:00 | 6:00 | 2.00 | DRLSURF | 07 | | P | · · | DRILL F/ 4333' - 4413' TD @ 6 AM 9/17/2011 |
| 9/18/2011 | 6:00 | 6:30 | 0.50 | DRLSURF | 15 | | P | , | CIRCULATE HOLE CLEAN |
| 0/10/2011 | 6:30 | 11:30 | 5.00 | DRLSURF | 13 | | P | · · | WIPER TRIP TO SHOE |
| | 11:30 | 12:30 | 1.00 | DRLSURF | 15 | | P | · · · · · · · · · · · · · · · · · · · | CIRCULATE HOLE CLEAN |
| | 12:30 | 14:00 | 1.50 | DRLSURF | 11 | | P | , | PRE JOB SAFETY MEETING, RUN GYRO SURVEY |
| | 14:00 | 15:00 | 1.00 | DRLSURF | 15 | | P | · · · · · · · · · · · · · · · · · · · | CIRCULATE HOLE CLEAN |
| | 15:00 | 19:00 | 4.00 | DRLSURF | 13 | | P | · · | TRIP OUT OF HOLE, LAY DOWN 9" DRILL COLLARS |
| | 19:00 | 6:00 | 11.00 | CASSURF | 24 | | P | · · · · · · · · · · · · · · · · · · · | PJSM RU & RUN A TOTAL OF 96 JOINTS 9 5/8" 40#, N-80, LTC, 8 RND CASING WITH 20 BOW SPRING CENTRALIZERS SET AT 4413'. |
| 9/19/2011 | 6:00 | 8:00 | 2.00 | CASSURF | 24 | | Р | 4,413.0 | WASH CASING TO BOTTOM F/ 4398' TO 4413', AND CIRCULATE BOTTOMS UP |
| | 8:00 | 11:00 | 3.00 | CASSURF | 25 | | Р | | PRE JOB SAFETY MEETING, PRESSURE TEST LINE TO 5000 PSI, PUMP 50 BBLS WATER, LEAD 740SX @ 12.0 PPG (286BBLS) 2.17 YIELD TAIL 420SX @ 14.2 PPG (100BBLS) 1.34 YIELD DROP PLUG DISPLACE WITH 331 BBLS MUD. BUMP PLUG @ 11:00HRS W/ 700 PSI OVER FINAL PRESSURE 1200 PSI. GOOD RETURNS THROUGHOUT CEMENT JOB. 50 BBLS CEMENT TO SURFACE. |
| | 11:00 | 17:00 | 6.00 | CASSURF | 26 | | Р | 4,413.0 | WOC, RIG DOWN HALLIBURTON CEMENTERS, ANNULAS FELL, PICK UP 295' OF 1" PIPE AND DO TOP JOB W/ 20 BBLS (98 SX) 15.8 PPG 1.15 YIELD W/ 2% CACL. 4 BBLS TO SURFACE |
| | 17:00 | 18:00 | 1.00 | CASSURF | 29 | | Р | 4,413.0 | ND DIVERTER STACK, HCR & KILL LINE |
| | 18:00 | 21:30 | 3.50 | CASSURF | 29 | | Р | 4,413.0 | LIFT DIVERTER, ROUGH CUT 9 5/8" CASING & LAY DOWN, LAY DOWN DIVERTER. FINAL CUT 9 5/8" CASING, WELD ON 9 5/8" X 11" 5M WELLHEAD. PRESSURE TEST WELDS TO 2500 PSI 10 MINS |
| | 21:30 | 6:00 | 8.50 | CASSURF | 28 | | Р | 4,413.0 | NIPPLE UP BOPE, "B" SECTION, ACCUMULATOR LINES |
| 9/20/2011 | 6:00 | 9:00 | 3.00 | CASSURF | 28 | | Р | 4,413.0 | NIPPLE UP BOPE, "B" SECTION, ACCUMULATOR LINES |

WESTERN

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| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
| | Sia | i t-Eiiu | (hr) | | y | | Code | (11) | |
| | 9:00 | 13:30 | 4.50 | CASSURF | 19 | | Р | 4,413.0 | TEST UPPER LOWER PIPE RAMS, INSIDE / HCR, KILL LINE VALVES & CHECK VALVE, INSIDE BOP, FULL OPENING SAFETY VALVE, LOWER SAFETY, UPPER HYDRAULIC VALVE ON TDU, BLIND RAMS. ALL 10 MIN EACH 300 LOW 5000 PSI HIGH. |
| | | | | | | | | | TEST ANNULAR PREVENTER TO 300 / 2500 PSI. TEST CASING TO 2500 PSI FOR 30 MIN. FUNCTION TEST ACCUMLATOR. |
| | 10:00 | 44.00 | 4.00 | DDI INIT4 | 40 | | | 4 440 0 | TEST MANIFOLD SHACK TO 10,000 PSI |
| | 13:30 | 14:30 | 1.00 | DRLINT1 | 13 | | P P | | INSTALL WEAR BUSHING |
| | 14:30 | 16:00 | 1.50 | DRLINT1 | 14 57 | | | | PICK UP MAKE UP DIRECTIONAL TOOLS & BIT |
| | 16:00 | 20:30 | 4.50 | DRLINT1 | - | | N P | | TROUBLE SHOOT MWD TOOL |
| | 20:30 | 22:30 | 2.00 | DRLINT1 | 14 | | | , | RIH W/ BHA & DP TO 4361' TAGGED CEMENT |
| | 22:30 | 23:00 | 0.50 | DRLINT1 | 50 | | Р | | BOPE DRILL CREW IN POSTIONS IN 96 SEC. FUNCTION LOWER PIPE RAMS 4 SEC. |
| | 23:00 | 23:30 | 0.50 | DRLINT1 | 12 | | Р | 4,413.0 | RIG SERVICE |
| | 23:30 | 0:00 | 0.50 | DRLINT1 | 72 | | Р | 4,413.0 | DRILL CEMENT FLOAT COLLAR & GUIDE SHOE F/ 4361' TO 4423' |
| | 0:00 | 0:30 | 0.50 | DRLINT1 | 33 | | Р | 4,423.0 | CIRCULATE HOLE CLEAN, PERFORM FORMATION INTEGRITY TEST: DEPTH 4423 FT, MUD WEIGHT 9.2 LB/GAL, APPLIED SURFACE PRESSURE 1423 PSI. EQUIVALENT DENSITY 15.4 LB/GAL, FORMATION GRADIENT 0.8 PSI/FT. GOOD TEST. |
| | 0:30 | 6:00 | 5.50 | DRLINT1 | 07 | | Р | 4,423.0 | DRILL ROTATE & SLIDE F/ 4423' TO 4700' |
| 9/21/2011 | 6:00 | 6:30 | 0.50 | DRLINT1 | 07 | | Р | 4,700.0 | DRILL ROTATE & SLIDE F/ 4700' - 4780' |
| | 6:30 | 7:00 | 0.50 | DRLINT1 | 41 | | Р | 4,780.0 | BOP DRILL |
| | 7:00 | 14:30 | 7.50 | DRLINT1 | 07 | | Р | 4,780.0 | DRILL ROTATE & SLIDE F/ 4780' - 5339' |
| | 14:30 | 15:00 | 0.50 | DRLINT1 | 12 | | Р | 5,339.0 | RIG SERVICE, FUNCTION HYDRIL, 15 SEC TO CLOSE |
| | 15:00 | 6:00 | 15.00 | DRLINT1 | 07 | | Р | 5,339.0 | DRILL ROTATE & SLIDE F/ 5339' - 5865' |
| 9/22/2011 | 6:00 | 14:00 | 8.00 | DRLINT1 | 07 | | Р | 5,865.0 | DIRECTIONAL DRILL FROM 5865' TO 6085' |
| | 14:00 | 14:30 | 0.50 | DRLINT1 | 12 | | Р | 6,085.0 | SERVICE UP RIG - FUNCTION TEST ANNULAR PREVENTER - HELD BOPE DRILL, MEN IN PLACE IN 90 SECONDS |
| | 14:30 | 1:30 | 11.00 | DRLINT1 | 07 | | Р | 6.085.0 | DIRECTIONAL DRILL FROM 6085' - 6458' |
| | 1:30 | 2:00 | 0.50 | DRLINT1 | 12 | | Р | | RIG SERVICE |
| | 2:00 | 6:00 | 4.00 | DRLINT1 | 07 | | Р | 6.458.0 | DIRECTIONAL DRILL FROM 6458' - 6581' |
| 9/23/2011 | 6:00 | 9:30 | 3.50 | DRLINT1 | 07 | | Р | 6.581.0 | DIRECTIONAL DRILL FROM 6581' TO 6734' |
| 0.20.20 | 9:30 | 10:00 | 0.50 | DRLINT1 | 12 | | P | | RIG SERVICE - FUNCTION TEST ANNULAR PREVENTER |
| | 10:00 | 6:00 | 20.00 | DRLINT1 | 07 | | P | | DIRECTIONAL DRILL FROM 6734' TO 7530' |
| 9/24/2011 | 6:00 | 10:00 | 4.00 | DRLINT1 | 07 | | P | -, | DIRECTIONAL DRILL FROM 7530' TO 7670' |
| 0/2 1/2011 | 10:00 | 10:30 | 0.50 | DRLINT1 | 12 | | P | · · · · · · · · · · · · · · · · · · · | SERVICE RIG - FUNCTION TEST ANNULAR PREVENTER CLOSED IN 21 SECONDS |
| | 10:30 | 15:00 | 4.50 | DRLINT1 | 07 | | Р | 7 670 0 | DIRECTIONAL DRILL FROM 7670' TO 7769' |
| | 15:00 | 16:00 | 1.00 | DRLINT1 | 43 | | N | , | REPLACED TOP DRIVE AUXILIARY HYDRAULIC PUMP ON POWER UNIT |
| | 16:00 | 6:00 | 14.00 | DRLINT1 | 07 | | Р | 7 769 0 | DIRECTIONAL DRILL FROM 7769' TO 8260' |
| 9/25/2011 | 6:00 | 8:00 | 2.00 | DRLINT1 | 07 | | P | · · · · · · · · · · · · · · · · · · · | DIRECTIONAL DRILL FROM 8260' TO 8323' |
| 5/20/2011 | 8:00 | 8:30 | 0.50 | DRLINT1 | 12 | | P | -, | SERVICE UP RIG - FUNCTION TEST ANNULAR PREVENTER, CLOSED IN 12 SECONDS |
| | 8:30 | 22:00 | 13.50 | DRLINT1 | 07 | | Р | 8 323 N | DIRECTIONAL DRILL FROM 8323' TO 8695' |
| | 22:00 | 23:00 | 1.00 | DRLINT1 | 60 | | N | | TROUBLE SHOOT EM SURVEY TOOL. NO SURVEY @ CONNECTION 8695'. |
| | 23:00 | 2:00 | 3.00 | DRLINT1 | 07 | | Р | 2 605 n | DIRECTIONAL DRILL FROM 8695' TO 8793' |
| | 2:00 | 3:00 | 1.00 | DRLINT1 | 60 | | N | <u> </u> | TROUBLE SHOOT EM SURVEY TOOL. NO SURVEY @ |
| | 3:00 | 3:30 | 0.50 | DRLINT1 | 15 | | Р | 8 793 0 | CONNECTION 8793'. CIRC & CONDITION MUD. |
| | 3:30 | 6:00 | 2.50 | DRLINT1 | 13 | | Р | | TOOH FOR SURVEY TOOL. BACK REAM OUT OF TIGHT HOLE |
| 0/00/0044 | 6:00 | 0.00 | 2.00 | DDI INIT# | 10 | | P | 0.700.0 | FROM 5944'. |
| 9/26/2011 | 6:00 | 9:00 | 3.00 | DRLINT1 | 13 | | ٢ | 8,793.0 | BACK REAM OUT OF TIGHT HOLE FROM 5837' / 4300' |

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| | Start-End | | n | | у | | Code | (ft) | |
| | 9:00 | 12:30 | (hr) 3.50 | DRLINT1 | 13 | | P | 8 703 0 | POOL TO DIDECTIONAL TOOLS |
| | 12:30 | 14:00 | 1.50 | DRLINT1 DRLINT2 | 13 | | P | | POOH TO DIRECTIONAL TOOLS LAID DOWN DIRECTIONAL TOOLS, CLEAN RIG FLOOR |
| | | 14:30 | 0.50 | DRLINT2 DRLINT1 | 12 | | P | | · |
| | 14:00 | | | | | | | | SERVICE UP RIG - FUNCTION TEST BLIND RAMS, CLOSED IN 3 SECONDS |
| | 14:30 | 18:00 | 3.50 | DRLINT1 | 13 | | Р | 8,793.0 | MAKE UP BIT #3, PRO-SHOT SUB - RIH TO 4300' |
| | 18:00 | 19:00 | 1.00 | DRLINT1 | 15 | | Р | 8,793.0 | CIRCULATE BOTTOMS UP AT 4300' - SLIP AND CUT DRILLING LINE |
| | 19:00 | 0:30 | 5.50 | DRLINT1 | 13 | | Р | 8,793.0 | TIH F/ 4300' TO 8793'. WASH & REAM F/ 4500' TO 5800'. |
| | 0:30 | 6:00 | 5.50 | DRLINT1 | 07 | | Р | 8,793.0 | DRILL F/ 8793' TO 8910'. |
| 9/27/2011 | 6:00 | 11:00 | 5.00 | DRLINT1 | 07 | | Р | 8,910.0 | DRILL F/ 8910' TO 9081'. |
| | 11:00 | 11:30 | 0.50 | DRLINT1 | 12 | | Р | 9,081.0 | SERVICE RIG - FUNTION TEST ANNULAR PREVENTER, CLOSED IN 21 SECONDS |
| | 11:30 | 6:00 | 18.50 | DRLINT1 | 07 | | Р | 9,081.0 | DRILL F/ 9081' TO 9745'. |
| 9/28/2011 | 6:00 | 13:00 | 7.00 | DRLINT1 | 07 | | Р | 9,745.0 | DRILL F/ 9,745' TO 10,014' |
| | 13:00 | 13:30 | 0.50 | DRLINT1 | 12 | | Р | 10,014.0 | SERVICE RIG - FUNCTION TEST ANNULAR PREVENTER, CLOSE IN 21 SECONDS |
| | 13:30 | 22:30 | 9.00 | DRLINT1 | 07 | | Р | 10,014.0 | DRILL F/ 10,014' TO 10294' |
| | 22:30 | 23:00 | 0.50 | DRLINT1 | 16 | | Р | 10,294.0 | WORK TIGHT HOLE @ 10230' |
| | 23:00 | 0:30 | 1.50 | DRLINT1 | 07 | | Р | 10,294.0 | DRILL F/ 10294' TO 10320' |
| | 0:30 | 1:30 | 1.00 | DRLINT1 | 12 | | Р | 10,320.0 | RIG SERVICE CHANGE OUT SWAB AND LINER ON #2 PUMP |
| | 1:30 | 6:00 | 4.50 | DRLINT1 | 07 | | Р | 10,320.0 | DRILL F/ 10320' TO 10460' |
| 9/29/2011 | 6:00 | 9:30 | 3.50 | DRLINT1 | 07 | | Р | 10,460.0 | DRILL F/ 10460' - 10578' |
| | 9:30 | 11:30 | 2.00 | DRLINT1 | 51 | | Р | 10,578.0 | C&C MUD - WORK TIGHT HOLE |
| | 11:30 | 13:30 | 2.00 | DRLINT1 | 07 | | Р | 10,578.0 | DRILL F/ 10578' - 10667' |
| | 13:30 | 14:00 | 0.50 | DRLINT1 | 12 | | Р | 10,667.0 | RIG SERVICE, FUNCTION TEST ANNULAR & HCR VALVE |
| | 14:00 | 17:30 | 3.50 | DRLINT1 | 07 | | Р | 10,667.0 | DRILL F/ 10667' - 10850' |
| | 17:30 | 19:00 | 1.50 | DRLINT1 | 15 | | Р | 10,850.0 | C & C MUD, MIX AND PUMP HIGH LCM SWEEPS F/ LOSSES |
| | 19:00 | 6:00 | 11.00 | DRLINT1 | 07 | | Р | 10,850.0 | DRILL F/ 10850' - 10980' TOP OF WASATCH = 10880' |
| 9/30/2011 | 6:00 | 7:30 | 1.50 | DRLINT1 | 07 | | Р | 10,980.0 | DRILL FROM 10,980' - 10,995' |
| | 7:30 | 14:00 | 6.50 | DRLINT1 | 15 | | Р | 10,995.0 | CIRCUALTE AND CONDITION MUD FOR WIPER TRIP |
| | 14:00 | 6:00 | 16.00 | DRLINT1 | 13 | | Р | 10,995.0 | WIPER TRIP FROM 10,995' - 4380' CIRCULATE WORK TIGHT SPOTS |
| 10/1/2011 | 6:00 | 6:30 | 0.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 6998' |
| | 6:30 | 8:00 | 1.50 | DRLINT1 | 15 | | Р | 10,995.0 | CIRCULATE AND CONDITION |
| | 8:00 | 9:30 | 1.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 9138' |
| | 9:30 | 10:30 | 1.00 | DRLINT1 | 13 | | Р | 10,995.0 | CIRCUALTE AND CONDITION |
| | 10:30 | 12:00 | 1.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 10,995' |
| | 12:00 | 16:00 | 4.00 | DRLINT1 | 13 | | Р | 10,995.0 | CIRCULATE AND CONDITION MUD FOR RUNNING OF 7" CASING - RAISED MUD WT FROM 10.5 PPG TO 10.7 PPG DUE TO CAVINGS SEE AT SHAKERS |
| | 16:00 | 1:00 | 9.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN 4 1/2" DRILL STRING - |
| | 1:00 | 2:00 | 1.00 | DRLINT1 | 17 | | Р | · · · · · · · · · · · · · · · · · · · | CUT AND SLIP DRILLING LINE |
| | 2:00 | 6:00 | 4.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN 4 1/2" DRILL STRING |
| 10/2/2011 | 6:00 | 8:00 | 2.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN BOTTOM HOLE ASSEMBLY, BIT # 3 - CLEAR RIG FLOOR IN PREPERATION OF RUNNING OF 7" INTERMEDIATE CASING |
| | 8:00 | 12:30 | 4.50 | CASINT1 | 24 | | Р | 10,995.0 | HELD PRE-JOB SAFETY MEETING - RIG UP FRANKS WESTATES SERVICE CASING ELEVATORS, TORQUE TURN CASING TONGS |
| | 12:30 | 6:00 | 17.50 | CASINT1 | 24 | | Р | 10,995.0 | MAKE UP 7" 29# HCP-110 LTC SHOE TRACK - RUNNING 7" INTERMEDIATE CASING, FILL PIPE EVERY 20 JTS, CIRC BOTTOMS UP AT 3500' 6500' |
| 10/3/2011 | 6:00 | 9:00 | 3.00 | CASINT1 | 24 | | Р | 10,995.0 | RAN 7" CASING FROM 6500' TO 8290'. |
| | 9:00 | 11:00 | 2.00 | CASINT1 | 47 | | N | 10,995.0 | SLIP AND CUT OFF PINCHED DRILLING LINE |

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| | | | (hr) | | | | | | | | |
| | 11:00 | 17:00 | 6.00 | CASINT1 | 24 | | Р | 10,995.0 | RAN 7" CASING FROM 8250' TO 10985'. RAN A TOTAL OF 251 JOINTS OF 7" 29# P110 LT&C 8 ROUND RNG 3 CASING - MAKER JT AT 7975', FLOAT COLLAR 10,935', SHOE 10,983' | | |
| | 17:00 | 18:00 | 1.00 | CASINT1 | 15 | | Р | 10,995.0 | LAY DOWN FRANKS CASING. RUNNING TOOLS | | |
| | 18:00 | 23:00 | 5.00 | CASINT1 | 25 | | P | 10,995.0 | HELD PREJOB SAFETY MEETING. RIG UP CEMENTERS. PRESSURE TESTED CEMENT PUMP, LINES TO 5000 PSI. PUMP 100 BBLS OF 10.5 PPG MUD WITH RIG PUMP. START JOB. PUMP 50 BBLS FRESH WATER SPACER. PUMP LEAD 648 SX @ 12.0 PPG 1.79 YEILD (207 BBLS). TAIL 90 SX @ 12.5 PPG 2.3 YEILD (37 BBLS). DROP PLUG AND DISPLACE WITH 406 BBLS OF MUD, DID NOT BUMP PLUG. SHUT DOWN @ 406 BBLS. HELD PRESSURE 1006 PSI FOR 5 MINS. BLEED BACK 1 BBL. FLOATS HELD, HAD PARTIAL RETURNS OF MUD BACK TO SURAFCE AFTER 140 BBLS INTO DISPLACEMENT. EST'D 60 BBLS IN TOTAL RETURNED THROUGH OUT CMT JOB - CEMENT IN PLACE AT 21:45 HRS 10/02/11 - RIG DOWN CEMENTERS. END JOB. | | |
| | 23:00 | 1:30 | 2.50 | DRLPRD | 42 | | Р | 10,995.0 | CHANGE OUT BAILS, SET TOP DRIVE FOR 3.1/2" DRILL STRING, LAY DOWN LANDING JT. FLUSH STACK. INSTALL PACK OFF ASSEMBLY. TEST SAME TO 5000 PSI FOR 15 MIN, OK | | |
| | 1:30 | 3:00 | 1.50 | DRLPRD | 19 | | Р | 10,995.0 | CHANGED OUT PIPE RAMS TO 3 1/2" | | |
| | 3:00 | 6:00 | 3.00 | DRLPRD | 19 | | Р | 10,995.0 | TESTING 11" 10K BOPE AT REPORT TIME - ALL TEST RAN AT LOW: 250 PSI, HIGH: 10,000 PSI, | | |
| 10/4/2011 | 6:00 | 13:00 | 7.00 | CASINT1 | 19 | | Р | 10,995.0 | TEST PIPE RAMS / STABBING VALVE / INSIDE KILL/ OUTSIDE KILL / FOSV / IBOP / CHECK VALVE / 1ST VALVE TO MANIFOLD TO 250 / 10,000 PSI,TEST CASING TO 2500 PSI F/ 30 MINS GOOD,TEST SURFACE CIRCULATING EQUIPMENT TO 250 / 4,000 PSI, TEST GOOD, | | |
| | 13:00 | 14:00 | 1.00 | CASCOND | 42 | | Р | 10,995.0 | RIG UP 3.5 EQUIPMENT ON FLOOR,SET TOP DRIVE TORQUE | | |
| | 14:00 | 5:00 | 15.00 | CASINT1 | 14 | | Р | 10,995.0 | PICK UP BHA. PICK UP 3 1/2 DRILL PIPE. TEST PRO SHOT. FILL PIPE EVERY 3000' TAGGED CEMENT 10854' | | |
| | 5:00 | 6:00 | 1.00 | DRLPRD | 72 | | Р | 10,995.0 | DRILLING ON SHOE TRACK | | |
| 10/5/2011 | 6:00 | 6:30 | 0.50 | CASINT1 | 41 | | Р | 10,995.0 | HELD BOPE DRILL - MEN IN PLACE IN 90 SECONDS - FUNCTION TEST ANNULAR PRVENTER, CLOSED IN 20 SECONDS | | |
| | 6:30 | 9:00 | 2.50 | CASINT1 | 42 | | Р | 10,995.0 | TAGGED UPON CEMENT AT 10,854' - CLEAN OUT SHOE TRACK 10,983' AND RAT HOLE TO 10,995' | | |
| | 9:00 | 9:30 | 0.50 | CASINT1 | 15 | | Р | 10,995.0 | CIRULATE HOLE CLEAN FOR FIT | | |
| | 9:30 | 10:00 | 0.50 | CASINT1 | 33 | | Р | 10,995.0 | FIT TEST - TEST FLUID WEIGHT 10.5 PPG, 10,983' TVD, SURFACE PRESSURE 1347 PSI = E MUD WT OF 12.8 PPG, | | |
| | 10:00 | 6:00 | 20.00 | DRLPRD | 07 | | Р | 10,995.0 | DRILL FROM 10,995' TO 11270' | | |
| 10/6/2011 | 6:00 | 11:00 | 5.00 | DRLPRD | 07 | | Р | · · · · · · · · · · · · · · · · · · · | DRILL FROM 11270' - 11348' | | |
| | 11:00 | 11:30 | 0.50 | DRLPRD | 41 | | Р | | BOP DRILL | | |
| | 11:30 | 12:00 | 0.50 | DRLPRD | 12 | | Р | | RIG SERVICE | | |
| | 12:00 | 6:00 | 18.00 | DRLPRD | 07 | | P - | | DRILL FROM 11348' - 11541' | | |
| 10/7/2011 | 6:00 | 16:00 | 10.00 | DRLPRD | 07 | | Р | | DRILL FROM 11541' - 11632' | | |
| | 16:00 | 16:30 | 0.50 | DRLPRD | 12 | | Р | | RIG SERVICE | | |
| | 16:30 | 17:30 | 1.00 | DRLPRD | 07 | | Р | • | DRILL F/ 11632' - 11642' | | |
| | 17:30 18:00 | 18:00 19:30 | 0.50 1.50 | DRLPRD | 13 15 | | P P | | TRIP OUT 4 STDS. FLOW CHECK, SLIGHT FLOW CIRCULATE BOTTOMS UP, 730 UNITS GAS, NO INCREASE IN FLOW, NO MUD CUT, CIRCULATE BOTTOMS UP, INCREASE MUD WT TO 11.2 PPG | | |
| | 19:30 | 22:30 | 3.00 | DRLPRD | 13 | | Р | 11,642.0 | PULL OUT HOLE TO 5600' WELL TAKING IMPROPER FILL | | |
| | 22:30 | 2:30 | 4.00 | DRLPRD | 50 | | N | 11,642.0 | TRIP IN FILL EVERY 30 STDS | | |
| | 2:30 | 3:30 | 1.00 | DRLPRD | 50 | | N | 11,642.0 | C&C MUD, 200 PSI DECREASE IN D.P. PRESSURE, CIRCULATE OUT GAS THROUGH CHOKE. 15' LAZY FLARE. | | |

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| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
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| | 3:30 | 6:00 | (hr) 2.50 | DRLPRD | 50 | | N | 11 642 0 | C&C MUD. RAISE MUD WEIGHT TO 11.5 PPG FOR BIT TRIP. |
| 10/8/2011 | 6:00 | 7:30 | 1.50 | DRLPRD | 50 | | N | , | C&C MUD, RAISE MUD WEIGHT TO 11.5 PPG FOR BIT TRIP. |
| 10/0/2011 | 7:30 | 14:00 | 6.50 | DRLPRD | 13 | | P | | POOH W/ BIT #4, HOLE SLICK |
| | 14:00 | 14:30 | 0.50 | DRLPRD | 12 | | P | - | RIG SERVICE FUNCTION |
| | 14:30 | 20:00 | 5.50 | DRLPRD | 13 | | P | | MU BIT #5 & TIH TO 10,696'. |
| | 20:00 | 21:30 | 1.50 | DRLPRD | 12 | | P | | CHANGE OUT ROTATING HEAD RUBBER. |
| | 21:30 | 22:30 | 1.00 | DRLPRD | 17 | | P | , | CUT & SLIP DRILL LINE. |
| | 22:30 | 23:30 | 1.00 | DRLPRD | 13 | | Р | | TIH F/ 10.696' TO 11.642'. HOLE SLICK. |
| | 23:30 | 6:00 | 6.50 | DRLPRD | 07 | | Р | 11.642.0 | DRILL F/ 11,642' TO 11745'. |
| 10/9/2011 | 6:00 | 16:30 | 10.50 | DRLPRD | 07 | | Р | - | DRILL F/ 11745' - 11920' |
| | 16:30 | 17:00 | 0.50 | DRLPRD | 12 | | Р | 11,920.0 | RIG SERVICE |
| | 17:00 | 6:00 | 13.00 | DRLPRD | 07 | | Р | 11,920.0 | DRILL F/ 11920' - 12135' |
| 10/10/2011 | 6:00 | 11:30 | 5.50 | DRLPRD | 07 | | Р | 12,135.0 | DRILL F/ 12135' - 12205' |
| | 11:30 | 12:00 | 0.50 | DRLPRD | 12 | | Р | 12,205.0 | RIG SERVICE, FUNCTION PIPE RAMS |
| | 12:00 | 6:00 | 18.00 | DRLPRD | 07 | | Р | 12,205.0 | DRILL F/ 12205' - 12565' |
| 10/11/2011 | 6:00 | 17:30 | 11.50 | DRLPRD | 07 | | Р | 12,565.0 | DRILL F/ 12565' - 12682' |
| | 17:30 | 18:00 | 0.50 | DRLPRD | 12 | | Р | 12,682.0 | RIG SERVICE |
| | 18:00 | 0:30 | 6.50 | DRLPRD | 07 | | Р | 12,682.0 | DRILL F/ 12682' - 12760' |
| | 0:30 | 2:00 | 1.50 | DRLPRD | 45 | | N | 12,760.0 | RIG REPAIR, CHANGE 3 VALVES #1 PUMP, #2 PUMP AIR LOCKED, WOULD NOT PRIME |
| | 2:00 | 6:00 | 4.00 | DRLPRD | 07 | | Р | 12,760.0 | DRILL F/ 12760' - 12805' |
| 10/12/2011 | 6:00 | 18:30 | 12.50 | DRLPRD | 07 | | Р | 12,805.0 | DRILL F/ 12805' - 12938' SIMULATE CONNECTION, WELL STATIC, CIRC BOTTOMS UP WHILE DRILLING AHEAD, GAS 4300 UNITS |
| | 18:30 | 1:30 | 7.00 | DRLPRD | 13 | | Р | 12,938.0 | PUMP SLUG, TRIP OUT HOLE WITH BIT #5, HOLE SLICK |
| | 1:30 | 6:00 | 4.50 | DRLPRD | 13 | | Р | 12,938.0 | MU BIT #6 AND TIH TO 8100', FILL EVERY 3000', |
| 10/13/2011 | 6:00 | 8:00 | 2.00 | DRLPRD | 13 | | Р | 12,938.0 | TIH F/8100', HOLE SLICK. |
| | 8:00 | 10:00 | 2.00 | DRLPRD | 07 | | Р | 12,938.0 | DRILL F/ 12943' - 12971' |
| | 10:00 | 10:30 | 0.50 | DRLPRD | 12 | | Р | 12,971.0 | RIG SERVICE, FUNCTION ANNULAR |
| | 10:30 | 6:00 | 19.50 | DRLPRD | 07 | | Р | 12,971.0 | DRILL F/ 12971' - 13445' |
| 10/14/2011 | 6:00 | 10:30 | 4.50 | DRLPRD | 07 | | Р | 13,445.0 | DRILL F/ 13445' - 13536' T.D. EARLY FOR WASHED OUT SWIVEL. (T.D. @ 10:30 A.M. 10/13/2011) |
| | 10:30 | 20:30 | 10.00 | DRLPRD | 45 | | Р | 13,536.0 | WAIT ON NEW SWIVEL, REPLACE WASHED SWIVEL WHILE CIRCULATING THE HOLE @ 13446' |
| | 20:30 | 21:00 | 0.50 | DRLPRD | 12 | | Р | 13,536.0 | RIG SERVICE |
| | 21:00 | 21:30 | 0.50 | DRLPRD | 13 | | Р | 13,536.0 | TIH TO 13536' |
| | 21:30 | 22:30 | 1.00 | DRLPRD | 15 | | Р | 13,536.0 | CIRCULATE BOTTOMS UP 5478 UNITS OF GAS |
| | 22:30 | 1:30 | 3.00 | DRLPRD | 13 | | Р | 13,536.0 | WIPER TRIP TO SHOE. FLOW CHECK. NO FLOW. TIH |
| | 1:30 | 2:30 | 1.00 | DRLPRD | 15 | | Р | 13,536.0 | CIRCULATE BOTTOMS UP 5896 UNITS OF GAS. DROP RABBIT DRIFT DOWN DRILL PIPE. |
| | 2:30 | 6:00 | 3.50 | DRLPRD | 13 | | Р | | POOH FOR OPEN HOLE LOGS W/ FLOW CHECKS |
| 10/15/2011 | 6:00 | 9:00 | 3.00 | DRLPRD | 13 | | Р | - | POOH F/ 5600' FOR LOGS |
| | 9:00 | 9:30 | 0.50 | DRLPRD | 12 | | Р | 13,536.0 | RIG SERVICE |
| | 9:30 | 16:00 | 6.50 | DRLPRD | 12 | | Р | 13,536.0 | PRE JOB SAFETY MEETING WITH HALLIBURTON, RIG UP AND RUN WIRELINE LOGS (ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET) LOG F/ 13540' - 4400' RKB (ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET) |
| | 16:00 | 22:00 | 6.00 | CASPRD1 | 24 | | Р | 13,536.0 | PRE JOB SAFETY MEETING, RIG UP FRANKS CASERS, RUN 68 JOINTS 4.5" 13.5 # P-110 8 RND RNG 3 CASING. MAKE UP VERSAFLEX HANGER. RD CASERS. CIRCULATE VOLUME OF LINER. |
| | 22:00 | 5:00 | 7.00 | CASPRD1 | 24 | | Р | 13,536.0 | |
| | 5:00 | 6:00 | 1.00 | CASPRD1 | 17 | | Р | 12 520 0 | CIRULATE @ 10804'. CUT & SLIP DRILL LINE. |

WESTERN

| Date | | Time irt-End | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|------------|-------|-----------------|----------------------|---------|--------------|-----|------------|-----------------|---|
| 10/16/2011 | 6:00 | 6:30 | 0.50 | CASPRD1 | 17 | | Р | 13,536.0 | SLIP & CUT DRILL LINE |
| | 6:30 | 9:00 | 2.50 | CASPRD1 | 24 | | Р | 13,536.0 | RIH W/ 3-1/2" DRILL PIPE @ 45' / MIN F/ 10804' TO 13536' |
| | 9:00 | 12:00 | 3.00 | CASPRD1 | 15 | | Р | 13,536.0 | C&C MUD, WAIT ON CEMENTERS |
| | 12:00 | 19:00 | 7.00 | CASPRD1 | 25 | | Р | 13,536.0 | HELD SAFETY MEETING, RIG UP SCHLUMBERGER, PRESSURE TEST LINES TO 1000 / 8000 PSI. PUMP 20 BBLS WATER AHEAD. 224SX (62BBLS) 14.1 PPG YIELD: 1.61, WASH OUT LINES TO PITS - DROPPED DART DISPLACE W/ 121 BBLS 12.7 PPG MUD. BUMPED PLUG WITH 1900 PSI, AT 15:30 HRS FLOATS HELD, 1BBL BACK. DROP BALL PUMP AND RUPTURE DISC @ 5700 PSI, PULL AND PUSH RELEASE FROM TOOL. CASING SET AT 13,533', MARKERS SET AT 12,538' & 11,530' RKB. CIRCULATE 1.5X HOLE VOLUME. 5 BBL CEMENT BACK TO SURFACE. RIG OUT CEMENTERS |
| | 19:00 | 19:30 | 0.50 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN 15 JOINTS DRILL PIPE |
| | 19:30 | 20:00 | 0.50 | CASPRD1 | 19 | | Р | 13,536.0 | POSITIVE TEST CASING TO 1000 PSI FOR 10 MIN |
| | 20:00 | 4:30 | 8.50 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN DRILL PIPE |
| | 4:30 | 6:00 | 1.50 | CASPRD1 | 13 | | Р | 13,536.0 | TIH W/ 24 STANDS DRILL PIPE & 6 STANDS DRILL COLLARS |
| 10/17/2011 | 6:00 | 12:00 | 6.00 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN DRILL PIPE & DRILL COLLARS. FLUSH SURFACE LINES / MANIFOLD W/ FRESH WATER |
| | 12:00 | 14:00 | 2.00 | CASPRD1 | 23 | | Р | 13,536.0 | CHANGE OUT 3 1/2" PIPE RAMS TO 4 1/2" PIPE RAMS |
| | 14:00 | 6:00 | 16.00 | CASPRD1 | 29 | | Р | 13,536.0 | NIPPLE DOWN BOPS, INSTALL 7-1/16" TUBING HEAD W/ CAP PRESSURE TEST TO 5000 PSI FOR 15 MIN, CLEAN PITS, RD FLARE LINES, CLEAN PITS & RIGGING DOWN TOP DRIVE, RIG RELEASED 10/17/2011 @ O6:00 A.M. |
| 10/18/2011 | 6:00 | 6:00 | 24.00 | CASPRD1 | 29 | | Р | 13,536.0 | RIGGING DOWN, 80% RIGGED DOWN, FINAL REPORT |

WESTERN

1 General

1.1 Customer Information

| Company | WESTERN |
|----------------|---------|
| Representative | |
| Address | |

1.2 Well Information

| Well | ROWLEY 3-16B4 | | | | | | | | |
|-----------------|--------------------------------------|------------------------------|-----------------|--|--|--|--|--|--|
| Project | ALTAMONT FIELD | Site | ROWLEY 3-16B4 | | | | | | |
| Rig Name/No. | | Event | COMPLETION LAND | | | | | | |
| Start Date | | End Date | | | | | | | |
| Spud Date | 9/15/2011 | UWI | ROWLEY 3-16B4 | | | | | | |
| Active Datum | KB @6,405.0ft (above Mean Sea Level) | 1 | | | | | | | |
| Afe | 143627/42978 / ROWLEY 3-16B4 | 143627/42978 / ROWLEY 3-16B4 | | | | | | | |
| No./Description | | | | | | | | | |

2 Summary

2.1 Operation Summary

| Date | 1 | Гіте | Duratio | Phase | Activit | Sub | ОР | MD From | Operation |
|------------|-------|--------|-----------|---------|---------|-----|------|---------|---|
| | Sta | rt-End | n (hr) | | у | | Code | (ft) | |
| 10/27/2011 | 6:00 | 7:30 | 1.50 | SITEPRE | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SETTING DEAD MEN. FILL OUT & REVIEW. |
| | 7:30 | 17:00 | 9.50 | SITEPRE | 18 | | Р | | SET DEAD MEN, CAT WALK & FLOW BACK TANKS. MEASURE DRILL OUT ASSEMBLY. PREP LOCATION FOR COMPLETION |
| 10/28/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON UNLOADING TBG. FILL OUT & REVIEW JSA |
| | 7:30 | 11:00 | 3.50 | WBP | 18 | | Р | | SPOT CATWALK & PIPE RACKS. UNLOAD TBG |
| | 11:00 | 15:00 | 4.00 | WBP | 16 | | Р | | ND BLIND FLANGE. NU BOP STACK |
| | 15:00 | 16:30 | 1.50 | MIRU | 01 | | Р | | RU RIG & WORK FLOOR |
| | 16:30 | 19:00 | 2.50 | WBP | 24 | | Р | | MEASURE & PICK UP 3-3/4" BIT, BIT SUB, 4 2-7/8"DRILL COLLARS, X-OVER & 60 JTS 2-3/8"EUE TBG. SDFN |
| 10/29/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TBG FILLED OUT JSA |
| | 7:30 | 17:30 | 10.00 | WBP | 06 | | Р | | CONTINUED PICKING UP TBG STOPPED AND CIRCULATE DRILLING MUD FROM 2025', 5032' 7100'. CONTIUED IN WELL EOT 8368. SECURED WELL SDFN. |
| 10/30/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING AND RU POWER SWIVEL. |
| | 7:30 | 14:00 | 6.50 | WBP | 06 | | Р | | CIRCULATE DRILLING MUD OUT FROM 8368', 10689'. CONTINUE PU TBG TAGGED @ 13499'. |
| | 14:00 | 18:30 | 4.50 | WBP | 10 | | Р | | RU POWER SWIVEL CIRCULATE OUT DRILLING MUD DRILLED CEMENT FROM 13499' TO 13508'. DRILLED ON FLOAT COLLAR FOR 1HR DID NOT GET THRU IT. CIRCULATE TBG CLEAN POOH 60' SECURED WELL SDFN. |
| 10/31/2011 | | | | | | | | | NO ACTIVITY |
| 11/1/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PUMP SAFETY |
| | 7:30 | 12:30 | 5.00 | WBP | 10 | | Р | | DRILL FLOAT COLLAR TO 13509'CONTINUE DRILLING CMT TO 13529'. CIRCULATE WELL CLEAN |
| | 12:30 | 13:00 | 0.50 | WBP | 18 | | Р | | RD POWER SWIVEL |
| | 13:00 | 17:30 | 4.50 | WBP | 24 | | Р | | TOOH LAYING DOWN 288 JTS 2-7/8"EUE TBG. SDFN |
| 11/2/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY ON LAYING DOWN TBG. FILL OUT & REVIEW JSA |

WESTERN

| Date | | ime rt-End | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|-----------|-------|---------------|----------------------|-------|--------------|-----|------------|-----------------|--|
| | 7:30 | 10:00 | 2.50 | WBP | 24 | | Р | | LD 61 JTS 2-7/8"EUE TBG, X-OVER, 88 JTS 2-3/8"EUE TBG, X-OVER, 4 2-7/8"DRILL COLLARS, BIT SUB & BIT. |
| | 10:00 | 12:30 | 2.50 | WBP | 16 | | Р | | NIPPLE DOWN 5K BOP. NU 10K BOP. |
| | 12:30 | 13:30 | 1.00 | RDMO | 02 | | Р | | RD PEAK 1100. MOL |
| 11/3/2011 | 10:00 | 10:30 | 0.50 | CHLOG | 28 | | Р | | HOLD SAFETY MEETING ON LOGGING UNDER PRESSURE |
| | 10:30 | 16:30 | 6.00 | CHLOG | 18 | | Р | | RU WIRELINE TRUCK. RIH W/ CBL,GR,CCL LOGGING TOOL. TAG PBTD @ 13524' WLM. RUN CBL LOG TO 4350' W/ CMT TOP @ 5530' UNDER 3000 PSI PRESSURE. RD WIRELINE TRUCK. SDFN |
| 11/4/2011 | 6:00 | 6:00 | 24.00 | WBP | 42 | | Р | | NO ACTIVETY TODAY. WAITING ON TEST EQUIPMENT |
| 11/5/2011 | 12:00 | 12:30 | 0.50 | WBP | 28 | | Р | | HOLD SAFETY MEETING ON PRESSURE TESTING. FILL OUT & REVIEW JSA. |
| | 12:30 | 14:00 | 1.50 | WBP | 18 | | Р | | PRESSURE TEST CSG TO 8500 PSI FOR 30 MINUTES. TEST OK. BLEED OFF PRESSURE. |
| | 14:00 | 16:00 | 2.00 | STG01 | 21 | | Р | | RU WIRELINE TRUCK & PERFORATE STAGE 1 PERFORATIONS UNDER 1000 PSI. DID NOT SEE ANY PRESSURE CHANGE. RD WIRELINE TRUCK |
| 11/7/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. |
| 11/8/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS |
| 11/9/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS. REPORT SUSPENDED |

| | STATE OF UTAH | | FORM 9 |
|--|---|---|--|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MI | | 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee |
| | RY NOTICES AND REPORTS | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | sals to drill new wells, significantly deepe igged wells, or to drill horizontal laterals. | | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP | | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston, | | ONE NUMBER: 8 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNW Section: 16 | P, RANGE, MERIDIAN: 5 Township: 02.0S Range: 04.0W Meridia | n: U | STATE: UTAH |
| 11. CHE | CK APPROPRIATE BOXES TO INDICA | TE NATURE OF NOTICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ACIDIZE | ☐ ALTER CASING | CASING REPAIR |
| □ NOTICE OF INTENT | CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | CHANGE WELL NAME |
| Approximate date work will start: | CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion. | OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | TEMPORARY ABANDON |
| | TUBING REPAIR | User or flare | WATER DISPOSAL |
| ✓ DRILLING REPORT | | | |
| Report Date: 11/11/2011 | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | APD EXTENSION |
| ,, | WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |
| 12. DESCRIBE PROPOSED OR CO | MPLETED OPERATIONS. Clearly show all pe Waiting to frac. | ertinent details including dates, depths, v | volumes, etc. |
| | | | Accepted by the |
| | | | Utah Division of |
| | | | l, Gas and Mining |
| | | FOF | R RECORD ONLY |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |
| NAME (PLEASE PRINT) Maria S. Gomez | PHONE NUMBER 713 420-5038 | R TITLE Sr. Regulatory Analyst | |
| SIGNATURE | / 13 420-3030 | DATE | |
| N/A | | 11/11/2011 | |

WESTERN

1 General

1.1 Customer Information

| Company | WESTERN |
|----------------|---------|
| Representative | |
| Address | |

1.2 Well Information

| Well | ROWLEY 3-16B4 | ROWLEY 3-16B4 | | | | | | | | | |
|-----------------|--------------------------------------|------------------------------|---------------|--|--|--|--|--|--|--|--|
| Project | ALTAMONT FIELD | Site | ROWLEY 3-16B4 | | | | | | | | |
| Rig Name/No. | PROPETRO/5, PETE MARTIN/, PRECISION | Event | DRILLING LAND | | | | | | | | |
| | DRILLING/404 | | | | | | | | | | |
| Start Date | 8/3/2011 | End Date | | | | | | | | | |
| Spud Date | 9/15/2011 | UWI | ROWLEY 3-16B4 | | | | | | | | |
| Active Datum | KB @6,405.0ft (above Mean Sea Level) | | · | | | | | | | | |
| Afe | 143627/42978 / ROWLEY 3-16B4 | 143627/42978 / ROWLEY 3-16B4 | | | | | | | | | |
| No./Description | | | | | | | | | | | |

2 Summary

2.1 Operation Summary

| Date | | ime irt-End | Duratio n | Phase | Activit | Sub | OP Code | MD From | Operation |
|-----------|-------|----------------|--------------|---------|---------|-----|------------|---------|--|
| | | | (hr) | | | | | . , | |
| 7/27/2011 | 6:00 | 6:00 | 24.00 | DRLSURF | 07 | | Р | 0.0 | DRILL AND SET CONDUCTOR |
| 8/3/2011 | 20:00 | 1:00 | 5.00 | MIRU | 01 | | Р | 40.0 | RIG UP PRO PETRO |
| | 1:00 | 5:00 | 4.00 | DRLSURF | 07 | | Р | 40.0 | DRILL FROM 40' TO 160' |
| 8/4/2011 | 6:00 | 19:00 | 13.00 | DRLSURF | 07 | | Р | 40.0 | DRILL FROM 160' TO 850' AND WATER OUT |
| | 19:00 | 20:00 | 1.00 | DRLSURF | 15 | | Р | 850.0 | CIRCULATE |
| | 20:00 | 21:00 | 1.00 | DRLSURF | 13 | | Р | 850.0 | TRIP OUT HOLE |
| | 21:00 | 22:00 | 1.00 | DRLSURF | 13 | | Р | 850.0 | TALLY COLLARS, RIG SERVICE |
| | 22:00 | 3:00 | 5.00 | DRLSURF | 13 | | Р | 850.0 | TRIP IN HOLE WASH TO BOTTOM |
| | 3:00 | 5:00 | 2.00 | DRLSURF | 07 | | Р | 850.0 | DRILL FROM 840' TO 890' |
| 8/5/2011 | 6:00 | 9:00 | 3.00 | DRLSURF | 07 | | Р | 890.0 | DRILL FROM 890' TO 980 |
| | 9:00 | 11:00 | 2.00 | DRLSURF | 15 | | Р | 980.0 | CIRCULATE |
| | 11:00 | 14:00 | 3.00 | DRLSURF | 13 | | Р | 980.0 | TRIP OUT HOLE |
| | 14:00 | 16:00 | 2.00 | CASSURF | 24 | | Р | 980.0 | RUN 13 3/8 CASING RUN 21 JOITNS OF 13 3/8 54.5# STC 8RNF RNG 3 CASING WITH 6 BOW SPRING CENTRALIZERS. CASING SET AT 916' GROUND LEVEL |
| | 16:00 | 18:30 | 2.50 | CASSURF | 25 | | Р | 980.0 | CEMENT WITH 184 BBLS, 950 SX 15.8 PPG, 1.15 YIELD, 5 GAL/SK WATER. DROPPED PLUGGED ON FLY. DISPLACED W/ 134 BBLS WATER. BUMPED PLUG @ 18:30. ANNULUS HOLDING. 34 BBLS CEMENT RETURNS. RD & RELEASE PRO PETRO @ 21:00 |
| | 18:30 | 21:00 | 2.50 | RDMO | 42 | | Р | 980.0 | RIG DOWN MOVE OUT, |
| 9/13/2011 | 6:00 | 7:00 | 1.00 | RDMO | 41 | | Р | 980.0 | SAFETY MEETING WITH WEST ROC TRUCKING AND DRILLING CREWS |
| | 7:00 | 19:00 | 12.00 | MIRU | 01 | | Р | 980.0 | RIG 85% MOVED IN 20% RIGGED UP |
| | 19:00 | 6:00 | 11.00 | MIRU | 01 | | Р | 980.0 | WAIT ON DAY LIGHT |
| 9/14/2011 | 6:00 | 7:00 | 1.00 | MIRU | 41 | | Р | 980.0 | PRE JOB SAFETY MEETING |
| | 7:00 | 3:30 | 20.50 | MIRU | 01 | | Р | 980.0 | RIG UP RIG, TOP DRIVE, RIG 100% RIGGED UP, RIG ON DAY RATE @ 03:30 |
| | 3:30 | 6:00 | 2.50 | MIRU | 01 | | Р | 980.0 | WELD ON WELL HEAD, NIPPLE UP DIVERTER AND ALL BOPE LINES |
| 9/15/2011 | 6:00 | 13:00 | 7.00 | DRLSURF | 28 | | Р | 980.0 | NIPPLE UP DIVERTER, KILL LINE, HCR LINES, FLOW LINE, GAS BUSTER LINES AND FLARE LINES |

WESTERN

| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|-----------|-------|---------------|--------------|---------|--------------|-----|------------|---------------------------------------|--|
| | 13:00 | 22:00 | 9.00 | DRLSURF | 30 | | P | 980.0 | HELD PRE JOB SAFETY MEETING, PRESSURE TEST ANNULAR / HCR / INSIDE KILL & INSIDE B.O.P. 250 PSI LOW & 2500 PSI HIGH. TEST MANUAL & HYDRAULIC TOP DRIVE VALVE 250 PSI LOW & 5000 PSI HIGH, TESTING STAND PIPE AND KILL LINE 250 PSI LOW & 3000 PSI HIGH |
| | 22:00 | 23:00 | 1.00 | DRLSURF | 28 | | Р | 980.0 | PRE SPUD RIG INSPECTION |
| | 23:00 | 2:30 | 3.50 | DRLSURF | 14 | | Р | 980.0 | PU RIH W/ BHA #1 |
| | 2:30 | 3:30 | 1.00 | DRLSURF | 17 | | Р | 980.0 | SLIP & CUT DRILL LINE |
| | 3:30 | 4:30 | 1.00 | DRLSURF | 14 | | Р | 980.0 | PU RIH W/ DP TAGGED CMT @ 873' |
| | 4:30 | 5:30 | 1.00 | DRLSURF | 31 | | Р | 980.0 | PRESSURE TEST CASING TO 1000 PSI |
| | 5:30 | 6:00 | 0.50 | DRLSURF | 72 | | Р | 980.0 | DRILL CMT, FLOAT SHOE & GUIDE SHOE |
| 9/16/2011 | 6:00 | 7:30 | 1.50 | DRLSURF | 72 | | Р | | DRILL CMT, FLOAT COLLAR @ 886' SHOE (933') |
| | 7:30 | 13:00 | 5.50 | DRLSURF | 07 | | Р | | DRILL F/ 997' - 1536' |
| | 13:00 | 13:30 | 0.50 | DRLSURF | 12 | | Р | | RIG SERVICE |
| | 13:30 | 2:30 | 13.00 | DRLSURF | 07 | | Р | · · · · · · · · · · · · · · · · · · · | DRILL F/ 1536' - 2841' |
| | 2:30 | 3:00 | 0.50 | DRLSURF | 12 | | Р | · · · · · · · · · · · · · · · · · · · | RIG SERVICE |
| | 3:00 | 6:00 | 3.00 | DRLSURF | 07 | | P | · · | DRILL F/ 2841' - 3040' |
| 9/17/2011 | 6:00 | 13:00 | 7.00 | DRLSURF | 07 | | P | , | DRILL F/ 3040' - 3587' |
| 0/11/2011 | 13:00 | 13:30 | 0.50 | DRLSURF | 12 | | P | · · | RIG SERVICE |
| | 13:30 | 3:30 | 14.00 | DRLSURF | 07 | | P | , | DRILL F/ 3587' - 4333' |
| | 3:30 | 4:00 | 0.50 | DRLSURF | 12 | | P | · · | RIG SERVICE |
| | 4:00 | 6:00 | 2.00 | DRLSURF | 07 | | P | · · | DRILL F/ 4333' - 4413' TD @ 6 AM 9/17/2011 |
| 9/18/2011 | 6:00 | 6:30 | 0.50 | DRLSURF | 15 | | P | , | CIRCULATE HOLE CLEAN |
| 0/10/2011 | 6:30 | 11:30 | 5.00 | DRLSURF | 13 | | P | · · | WIPER TRIP TO SHOE |
| | 11:30 | 12:30 | 1.00 | DRLSURF | 15 | | P | · · · · · · · · · · · · · · · · · · · | CIRCULATE HOLE CLEAN |
| | 12:30 | 14:00 | 1.50 | DRLSURF | 11 | | P | , | PRE JOB SAFETY MEETING, RUN GYRO SURVEY |
| | 14:00 | 15:00 | 1.00 | DRLSURF | 15 | | P | · · · · · · · · · · · · · · · · · · · | CIRCULATE HOLE CLEAN |
| | 15:00 | 19:00 | 4.00 | DRLSURF | 13 | | P | · · | TRIP OUT OF HOLE, LAY DOWN 9" DRILL COLLARS |
| | 19:00 | 6:00 | 11.00 | CASSURF | 24 | | P | | PJSM RU & RUN A TOTAL OF 96 JOINTS 9 5/8" 40#, N-80, LTC, 8 RND CASING WITH 20 BOW SPRING CENTRALIZERS SET AT 4413'. |
| 9/19/2011 | 6:00 | 8:00 | 2.00 | CASSURF | 24 | | Р | 4,413.0 | WASH CASING TO BOTTOM F/ 4398' TO 4413', AND CIRCULATE BOTTOMS UP |
| | 8:00 | 11:00 | 3.00 | CASSURF | 25 | | Р | | PRE JOB SAFETY MEETING, PRESSURE TEST LINE TO 5000 PSI, PUMP 50 BBLS WATER, LEAD 740SX @ 12.0 PPG (286BBLS) 2.17 YIELD TAIL 420SX @ 14.2 PPG (100BBLS) 1.34 YIELD DROP PLUG DISPLACE WITH 331 BBLS MUD. BUMP PLUG @ 11:00HRS W/ 700 PSI OVER FINAL PRESSURE 1200 PSI. GOOD RETURNS THROUGHOUT CEMENT JOB. 50 BBLS CEMENT TO SURFACE. |
| | 11:00 | 17:00 | 6.00 | CASSURF | 26 | | Р | 4,413.0 | WOC, RIG DOWN HALLIBURTON CEMENTERS, ANNULAS FELL, PICK UP 295' OF 1" PIPE AND DO TOP JOB W/ 20 BBLS (98 SX) 15.8 PPG 1.15 YIELD W/ 2% CACL. 4 BBLS TO SURFACE |
| | 17:00 | 18:00 | 1.00 | CASSURF | 29 | | Р | 4,413.0 | ND DIVERTER STACK, HCR & KILL LINE |
| | 18:00 | 21:30 | 3.50 | CASSURF | 29 | | Р | 4,413.0 | LIFT DIVERTER, ROUGH CUT 9 5/8" CASING & LAY DOWN, LAY DOWN DIVERTER. FINAL CUT 9 5/8" CASING, WELD ON 9 5/8" X 11" 5M WELLHEAD. PRESSURE TEST WELDS TO 2500 PSI 10 MINS |
| | 21:30 | 6:00 | 8.50 | CASSURF | 28 | | Р | 4,413.0 | NIPPLE UP BOPE, "B" SECTION, ACCUMULATOR LINES |
| 9/20/2011 | 6:00 | 9:00 | 3.00 | CASSURF | 28 | | Р | 4,413.0 | NIPPLE UP BOPE, "B" SECTION, ACCUMULATOR LINES |

WESTERN

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| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
| | Sia | i t-Eiiu | (hr) | | y | | Code | (11) | |
| | 9:00 | 13:30 | 4.50 | CASSURF | 19 | | Р | 4,413.0 | TEST UPPER LOWER PIPE RAMS, INSIDE / HCR, KILL LINE VALVES & CHECK VALVE, INSIDE BOP, FULL OPENING SAFETY VALVE, LOWER SAFETY, UPPER HYDRAULIC VALVE ON TDU, BLIND RAMS. ALL 10 MIN EACH 300 LOW 5000 PSI HIGH. |
| | | | | | | | | | TEST ANNULAR PREVENTER TO 300 / 2500 PSI. TEST CASING TO 2500 PSI FOR 30 MIN. FUNCTION TEST ACCUMLATOR. |
| | 10:00 | 44.00 | 4.00 | DDI INIT4 | 40 | | | 4 440 0 | TEST MANIFOLD SHACK TO 10,000 PSI |
| | 13:30 | 14:30 | 1.00 | DRLINT1 | 13 | | P P | | INSTALL WEAR BUSHING |
| | 14:30 | 16:00 | 1.50 | DRLINT1 | 14 57 | | | | PICK UP MAKE UP DIRECTIONAL TOOLS & BIT |
| | 16:00 | 20:30 | 4.50 | DRLINT1 | - | | N P | | TROUBLE SHOOT MWD TOOL |
| | 20:30 | 22:30 | 2.00 | DRLINT1 | 14 | | | , | RIH W/ BHA & DP TO 4361' TAGGED CEMENT |
| | 22:30 | 23:00 | 0.50 | DRLINT1 | 50 | | Р | | BOPE DRILL CREW IN POSTIONS IN 96 SEC. FUNCTION LOWER PIPE RAMS 4 SEC. |
| | 23:00 | 23:30 | 0.50 | DRLINT1 | 12 | | Р | 4,413.0 | RIG SERVICE |
| | 23:30 | 0:00 | 0.50 | DRLINT1 | 72 | | Р | 4,413.0 | DRILL CEMENT FLOAT COLLAR & GUIDE SHOE F/ 4361' TO 4423' |
| | 0:00 | 0:30 | 0.50 | DRLINT1 | 33 | | Р | 4,423.0 | CIRCULATE HOLE CLEAN, PERFORM FORMATION INTEGRITY TEST: DEPTH 4423 FT, MUD WEIGHT 9.2 LB/GAL, APPLIED SURFACE PRESSURE 1423 PSI. EQUIVALENT DENSITY 15.4 LB/GAL, FORMATION GRADIENT 0.8 PSI/FT. GOOD TEST. |
| | 0:30 | 6:00 | 5.50 | DRLINT1 | 07 | | Р | 4,423.0 | DRILL ROTATE & SLIDE F/ 4423' TO 4700' |
| 9/21/2011 | 6:00 | 6:30 | 0.50 | DRLINT1 | 07 | | Р | 4,700.0 | DRILL ROTATE & SLIDE F/ 4700' - 4780' |
| | 6:30 | 7:00 | 0.50 | DRLINT1 | 41 | | Р | 4,780.0 | BOP DRILL |
| | 7:00 | 14:30 | 7.50 | DRLINT1 | 07 | | Р | 4,780.0 | DRILL ROTATE & SLIDE F/ 4780' - 5339' |
| | 14:30 | 15:00 | 0.50 | DRLINT1 | 12 | | Р | 5,339.0 | RIG SERVICE, FUNCTION HYDRIL, 15 SEC TO CLOSE |
| | 15:00 | 6:00 | 15.00 | DRLINT1 | 07 | | Р | 5,339.0 | DRILL ROTATE & SLIDE F/ 5339' - 5865' |
| 9/22/2011 | 6:00 | 14:00 | 8.00 | DRLINT1 | 07 | | Р | 5,865.0 | DIRECTIONAL DRILL FROM 5865' TO 6085' |
| | 14:00 | 14:30 | 0.50 | DRLINT1 | 12 | | Р | 6,085.0 | SERVICE UP RIG - FUNCTION TEST ANNULAR PREVENTER - HELD BOPE DRILL, MEN IN PLACE IN 90 SECONDS |
| | 14:30 | 1:30 | 11.00 | DRLINT1 | 07 | | Р | 6.085.0 | DIRECTIONAL DRILL FROM 6085' - 6458' |
| | 1:30 | 2:00 | 0.50 | DRLINT1 | 12 | | Р | | RIG SERVICE |
| | 2:00 | 6:00 | 4.00 | DRLINT1 | 07 | | Р | 6.458.0 | DIRECTIONAL DRILL FROM 6458' - 6581' |
| 9/23/2011 | 6:00 | 9:30 | 3.50 | DRLINT1 | 07 | | Р | 6.581.0 | DIRECTIONAL DRILL FROM 6581' TO 6734' |
| 0.20.20 | 9:30 | 10:00 | 0.50 | DRLINT1 | 12 | | P | | RIG SERVICE - FUNCTION TEST ANNULAR PREVENTER |
| | 10:00 | 6:00 | 20.00 | DRLINT1 | 07 | | P | | DIRECTIONAL DRILL FROM 6734' TO 7530' |
| 9/24/2011 | 6:00 | 10:00 | 4.00 | DRLINT1 | 07 | | P | -, | DIRECTIONAL DRILL FROM 7530' TO 7670' |
| 0/2 1/2011 | 10:00 | 10:30 | 0.50 | DRLINT1 | 12 | | P | · · · · · · · · · · · · · · · · · · · | SERVICE RIG - FUNCTION TEST ANNULAR PREVENTER CLOSED IN 21 SECONDS |
| | 10:30 | 15:00 | 4.50 | DRLINT1 | 07 | | Р | 7 670 0 | DIRECTIONAL DRILL FROM 7670' TO 7769' |
| | 15:00 | 16:00 | 1.00 | DRLINT1 | 43 | | N | , | REPLACED TOP DRIVE AUXILIARY HYDRAULIC PUMP ON POWER UNIT |
| | 16:00 | 6:00 | 14.00 | DRLINT1 | 07 | | Р | 7 769 0 | DIRECTIONAL DRILL FROM 7769' TO 8260' |
| 9/25/2011 | 6:00 | 8:00 | 2.00 | DRLINT1 | 07 | | P | · · · · · · · · · · · · · · · · · · · | DIRECTIONAL DRILL FROM 8260' TO 8323' |
| 5/20/2011 | 8:00 | 8:30 | 0.50 | DRLINT1 | 12 | | P | -, | SERVICE UP RIG - FUNCTION TEST ANNULAR PREVENTER, CLOSED IN 12 SECONDS |
| | 8:30 | 22:00 | 13.50 | DRLINT1 | 07 | | Р | 8 323 N | DIRECTIONAL DRILL FROM 8323' TO 8695' |
| | 22:00 | 23:00 | 1.00 | DRLINT1 | 60 | | N | | TROUBLE SHOOT EM SURVEY TOOL. NO SURVEY @ CONNECTION 8695'. |
| | 23:00 | 2:00 | 3.00 | DRLINT1 | 07 | | Р | 2 605 n | DIRECTIONAL DRILL FROM 8695' TO 8793' |
| | 2:00 | 3:00 | 1.00 | DRLINT1 | 60 | | N | <u> </u> | TROUBLE SHOOT EM SURVEY TOOL. NO SURVEY @ |
| | 3:00 | 3:30 | 0.50 | DRLINT1 | 15 | | Р | 8 793 0 | CONNECTION 8793'. CIRC & CONDITION MUD. |
| | 3:30 | 6:00 | 2.50 | DRLINT1 | 13 | | Р | | TOOH FOR SURVEY TOOL. BACK REAM OUT OF TIGHT HOLE |
| 0/00/0044 | 6:00 | 0.00 | 2.00 | DDI INIT# | 10 | | P | 0.700.0 | FROM 5944'. |
| 9/26/2011 | 6:00 | 9:00 | 3.00 | DRLINT1 | 13 | | ٢ | 8,793.0 | BACK REAM OUT OF TIGHT HOLE FROM 5837' / 4300' |

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| Date | Т | Time | Duratio | Phase | Activit | Sub | OP | MD From | Operation |
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| | Start-End | | n | | у | | Code | (ft) | |
| | 9:00 | 12:30 | (hr) 3.50 | DRLINT1 | 13 | | P | 8 703 0 | POOH TO DIRECTIONAL TOOLS |
| | 12:30 | 14:00 | 1.50 | DRLINT1 DRLINT2 | 13 | | P | | LAID DOWN DIRECTIONAL TOOLS, CLEAN RIG FLOOR |
| | | 14:30 | 0.50 | DRLINT2 DRLINT1 | 12 | | P | | · |
| | 14:00 | | | | | | | | SERVICE UP RIG - FUNCTION TEST BLIND RAMS, CLOSED IN 3 SECONDS |
| | 14:30 | 18:00 | 3.50 | DRLINT1 | 13 | | Р | 8,793.0 | MAKE UP BIT #3, PRO-SHOT SUB - RIH TO 4300' |
| | 18:00 | 19:00 | 1.00 | DRLINT1 | 15 | | Р | 8,793.0 | CIRCULATE BOTTOMS UP AT 4300' - SLIP AND CUT DRILLING LINE |
| | 19:00 | 0:30 | 5.50 | DRLINT1 | 13 | | Р | 8,793.0 | TIH F/ 4300' TO 8793'. WASH & REAM F/ 4500' TO 5800'. |
| | 0:30 | 6:00 | 5.50 | DRLINT1 | 07 | | Р | 8,793.0 | DRILL F/ 8793' TO 8910'. |
| 9/27/2011 | 6:00 | 11:00 | 5.00 | DRLINT1 | 07 | | Р | 8,910.0 | DRILL F/ 8910' TO 9081'. |
| | 11:00 | 11:30 | 0.50 | DRLINT1 | 12 | | Р | 9,081.0 | SERVICE RIG - FUNTION TEST ANNULAR PREVENTER, CLOSED IN 21 SECONDS |
| | 11:30 | 6:00 | 18.50 | DRLINT1 | 07 | | Р | 9,081.0 | DRILL F/ 9081' TO 9745'. |
| 9/28/2011 | 6:00 | 13:00 | 7.00 | DRLINT1 | 07 | | Р | 9,745.0 | DRILL F/ 9,745' TO 10,014' |
| | 13:00 | 13:30 | 0.50 | DRLINT1 | 12 | | Р | 10,014.0 | SERVICE RIG - FUNCTION TEST ANNULAR PREVENTER, CLOSE IN 21 SECONDS |
| | 13:30 | 22:30 | 9.00 | DRLINT1 | 07 | | Р | 10,014.0 | DRILL F/ 10,014' TO 10294' |
| | 22:30 | 23:00 | 0.50 | DRLINT1 | 16 | | Р | 10,294.0 | WORK TIGHT HOLE @ 10230' |
| | 23:00 | 0:30 | 1.50 | DRLINT1 | 07 | | Р | 10,294.0 | DRILL F/ 10294' TO 10320' |
| | 0:30 | 1:30 | 1.00 | DRLINT1 | 12 | | Р | 10,320.0 | RIG SERVICE CHANGE OUT SWAB AND LINER ON #2 PUMP |
| | 1:30 | 6:00 | 4.50 | DRLINT1 | 07 | | Р | 10,320.0 | DRILL F/ 10320' TO 10460' |
| 9/29/2011 | 6:00 | 9:30 | 3.50 | DRLINT1 | 07 | | Р | 10,460.0 | DRILL F/ 10460' - 10578' |
| | 9:30 | 11:30 | 2.00 | DRLINT1 | 51 | | Р | 10,578.0 | C&C MUD - WORK TIGHT HOLE |
| | 11:30 | 13:30 | 2.00 | DRLINT1 | 07 | | Р | 10,578.0 | DRILL F/ 10578' - 10667' |
| | 13:30 | 14:00 | 0.50 | DRLINT1 | 12 | | Р | 10,667.0 | RIG SERVICE, FUNCTION TEST ANNULAR & HCR VALVE |
| | 14:00 | 17:30 | 3.50 | DRLINT1 | 07 | | Р | 10,667.0 | DRILL F/ 10667' - 10850' |
| | 17:30 | 19:00 | 1.50 | DRLINT1 | 15 | | Р | 10,850.0 | C & C MUD, MIX AND PUMP HIGH LCM SWEEPS F/ LOSSES |
| | 19:00 | 6:00 | 11.00 | DRLINT1 | 07 | | Р | 10,850.0 | DRILL F/ 10850' - 10980' TOP OF WASATCH = 10880' |
| 9/30/2011 | 6:00 | 7:30 | 1.50 | DRLINT1 | 07 | | Р | 10,980.0 | DRILL FROM 10,980' - 10,995' |
| | 7:30 | 14:00 | 6.50 | DRLINT1 | 15 | | Р | 10,995.0 | CIRCUALTE AND CONDITION MUD FOR WIPER TRIP |
| | 14:00 | 6:00 | 16.00 | DRLINT1 | 13 | | Р | 10,995.0 | WIPER TRIP FROM 10,995' - 4380' CIRCULATE WORK TIGHT SPOTS |
| 10/1/2011 | 6:00 | 6:30 | 0.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 6998' |
| | 6:30 | 8:00 | 1.50 | DRLINT1 | 15 | | Р | 10,995.0 | CIRCULATE AND CONDITION |
| | 8:00 | 9:30 | 1.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 9138' |
| | 9:30 | 10:30 | 1.00 | DRLINT1 | 13 | | Р | 10,995.0 | CIRCUALTE AND CONDITION |
| | 10:30 | 12:00 | 1.50 | DRLINT1 | 13 | | Р | 10,995.0 | RIH TO 10,995' |
| | 12:00 | 16:00 | 4.00 | DRLINT1 | 13 | | Р | 10,995.0 | CIRCULATE AND CONDITION MUD FOR RUNNING OF 7" CASING - RAISED MUD WT FROM 10.5 PPG TO 10.7 PPG DUE TO CAVINGS SEE AT SHAKERS |
| | 16:00 | 1:00 | 9.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN 4 1/2" DRILL STRING - |
| | 1:00 | 2:00 | 1.00 | DRLINT1 | 17 | | Р | · · · · · · · · · · · · · · · · · · · | CUT AND SLIP DRILLING LINE |
| | 2:00 | 6:00 | 4.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN 4 1/2" DRILL STRING |
| 10/2/2011 | 6:00 | 8:00 | 2.00 | DRLINT1 | 14 | | Р | 10,995.0 | POOH LAYING DOWN BOTTOM HOLE ASSEMBLY, BIT # 3 - CLEAR RIG FLOOR IN PREPERATION OF RUNNING OF 7" INTERMEDIATE CASING |
| | 8:00 | 12:30 | 4.50 | CASINT1 | 24 | | Р | 10,995.0 | HELD PRE-JOB SAFETY MEETING - RIG UP FRANKS WESTATES SERVICE CASING ELEVATORS, TORQUE TURN CASING TONGS |
| | 12:30 | 6:00 | 17.50 | CASINT1 | 24 | | Р | 10,995.0 | MAKE UP 7" 29# HCP-110 LTC SHOE TRACK - RUNNING 7" INTERMEDIATE CASING, FILL PIPE EVERY 20 JTS, CIRC BOTTOMS UP AT 3500' 6500' |
| 10/3/2011 | 6:00 | 9:00 | 3.00 | CASINT1 | 24 | | Р | 10,995.0 | RAN 7" CASING FROM 6500' TO 8290'. |
| | 9:00 | 11:00 | 2.00 | CASINT1 | 47 | | N | 10,995.0 | SLIP AND CUT OFF PINCHED DRILLING LINE |

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| Date | 1 | ime | Duratio | Phase | Activit | Sub | OP | MD From | Operation |
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| | | | (hr) | | | | | | |
| | 11:00 | 17:00 | 6.00 | CASINT1 | 24 | | Р | 10,995.0 | RAN 7" CASING FROM 8250' TO 10985'. RAN A TOTAL OF 251 JOINTS OF 7" 29# P110 LT&C 8 ROUND RNG 3 CASING - MAKER JT AT 7975', FLOAT COLLAR 10,935', SHOE 10,983' |
| | 17:00 | 18:00 | 1.00 | CASINT1 | 15 | | Р | 10,995.0 | LAY DOWN FRANKS CASING. RUNNING TOOLS |
| | 18:00 | 23:00 | 5.00 | CASINT1 | 25 | | P | 10,995.0 | HELD PREJOB SAFETY MEETING. RIG UP CEMENTERS. PRESSURE TESTED CEMENT PUMP, LINES TO 5000 PSI. PUMP 100 BBLS OF 10.5 PPG MUD WITH RIG PUMP. START JOB. PUMP 50 BBLS FRESH WATER SPACER. PUMP LEAD 648 SX @ 12.0 PPG 1.79 YEILD (207 BBLS). TAIL 90 SX @ 12.5 PPG 2.3 YEILD (37 BBLS). DROP PLUG AND DISPLACE WITH 406 BBLS OF MUD, DID NOT BUMP PLUG. SHUT DOWN @ 406 BBLS. HELD PRESSURE 1006 PSI FOR 5 MINS. BLEED BACK 1 BBL. FLOATS HELD, HAD PARTIAL RETURNS OF MUD BACK TO SURAFCE AFTER 140 BBLS INTO DISPLACEMENT. EST'D 60 BBLS IN TOTAL RETURNED THROUGH OUT CMT JOB - CEMENT IN PLACE AT 21:45 HRS 10/02/11 - RIG DOWN CEMENTERS. END JOB. |
| | 23:00 | 1:30 | 2.50 | DRLPRD | 42 | | Р | 10,995.0 | CHANGE OUT BAILS, SET TOP DRIVE FOR 3.1/2" DRILL STRING, LAY DOWN LANDING JT. FLUSH STACK. INSTALL PACK OFF ASSEMBLY. TEST SAME TO 5000 PSI FOR 15 MIN, OK |
| | 1:30 | 3:00 | 1.50 | DRLPRD | 19 | | Р | 10,995.0 | CHANGED OUT PIPE RAMS TO 3 1/2" |
| | 3:00 | 6:00 | 3.00 | DRLPRD | 19 | | Р | 10,995.0 | TESTING 11" 10K BOPE AT REPORT TIME - ALL TEST RAN AT LOW: 250 PSI, HIGH: 10,000 PSI, |
| 10/4/2011 | 6:00 | 13:00 | 7.00 | CASINT1 | 19 | | Р | 10,995.0 | TEST PIPE RAMS / STABBING VALVE / INSIDE KILL/ OUTSIDE KILL / FOSV / IBOP / CHECK VALVE / 1ST VALVE TO MANIFOLD TO 250 / 10,000 PSI,TEST CASING TO 2500 PSI F/ 30 MINS GOOD,TEST SURFACE CIRCULATING EQUIPMENT TO 250 / 4,000 PSI, TEST GOOD, |
| | 13:00 | 14:00 | 1.00 | CASCOND | 42 | | Р | 10,995.0 | RIG UP 3.5 EQUIPMENT ON FLOOR,SET TOP DRIVE TORQUE |
| | 14:00 | 5:00 | 15.00 | CASINT1 | 14 | | Р | 10,995.0 | PICK UP BHA. PICK UP 3 1/2 DRILL PIPE. TEST PRO SHOT. FILL PIPE EVERY 3000' TAGGED CEMENT 10854' |
| | 5:00 | 6:00 | 1.00 | DRLPRD | 72 | | Р | 10,995.0 | DRILLING ON SHOE TRACK |
| 10/5/2011 | 6:00 | 6:30 | 0.50 | CASINT1 | 41 | | Р | 10,995.0 | HELD BOPE DRILL - MEN IN PLACE IN 90 SECONDS - FUNCTION TEST ANNULAR PRVENTER, CLOSED IN 20 SECONDS |
| | 6:30 | 9:00 | 2.50 | CASINT1 | 42 | | Р | 10,995.0 | TAGGED UPON CEMENT AT 10,854' - CLEAN OUT SHOE TRACK 10,983' AND RAT HOLE TO 10,995' |
| | 9:00 | 9:30 | 0.50 | CASINT1 | 15 | | Р | 10,995.0 | CIRULATE HOLE CLEAN FOR FIT |
| | 9:30 | 10:00 | 0.50 | CASINT1 | 33 | | Р | 10,995.0 | FIT TEST - TEST FLUID WEIGHT 10.5 PPG, 10,983' TVD, SURFACE PRESSURE 1347 PSI = E MUD WT OF 12.8 PPG, |
| | 10:00 | 6:00 | 20.00 | DRLPRD | 07 | | Р | 10,995.0 | DRILL FROM 10,995' TO 11270' |
| 10/6/2011 | 6:00 | 11:00 | 5.00 | DRLPRD | 07 | | Р | · · · · · · · · · · · · · · · · · · · | DRILL FROM 11270' - 11348' |
| | 11:00 | 11:30 | 0.50 | DRLPRD | 41 | | Р | | BOP DRILL |
| | 11:30 | 12:00 | 0.50 | DRLPRD | 12 | | Р | | RIG SERVICE |
| | 12:00 | 6:00 | 18.00 | DRLPRD | 07 | | P - | | DRILL FROM 11348' - 11541' |
| 10/7/2011 | 6:00 | 16:00 | 10.00 | DRLPRD | 07 | | Р | | DRILL FROM 11541' - 11632' |
| | 16:00 | 16:30 | 0.50 | DRLPRD | 12 | | Р | | RIG SERVICE |
| | 16:30 | 17:30 | 1.00 | DRLPRD | 07 | | Р | • | DRILL F/ 11632' - 11642' |
| | 17:30 18:00 | 18:00 19:30 | 0.50 1.50 | DRLPRD | 13 15 | | P P | | TRIP OUT 4 STDS. FLOW CHECK, SLIGHT FLOW CIRCULATE BOTTOMS UP, 730 UNITS GAS, NO INCREASE IN FLOW, NO MUD CUT, CIRCULATE BOTTOMS UP, INCREASE MUD WT TO 11.2 PPG |
| | 19:30 | 22:30 | 3.00 | DRLPRD | 13 | | Р | 11,642.0 | PULL OUT HOLE TO 5600' WELL TAKING IMPROPER FILL |
| | 22:30 | 2:30 | 4.00 | DRLPRD | 50 | | N | 11,642.0 | TRIP IN FILL EVERY 30 STDS |
| | 2:30 | 3:30 | 1.00 | DRLPRD | 50 | | N | 11,642.0 | C&C MUD, 200 PSI DECREASE IN D.P. PRESSURE, CIRCULATE OUT GAS THROUGH CHOKE. 15' LAZY FLARE. |

WESTERN

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| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
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| | 3:30 | 6:00 | (hr) 2.50 | DRLPRD | 50 | | N | 11 642 0 | C&C MUD. RAISE MUD WEIGHT TO 11.5 PPG FOR BIT TRIP. |
| 10/8/2011 | 6:00 | 7:30 | 1.50 | DRLPRD | 50 | | N | , | C&C MUD, RAISE MUD WEIGHT TO 11.5 PPG FOR BIT TRIP. |
| 10/0/2011 | 7:30 | 14:00 | 6.50 | DRLPRD | 13 | | P | | POOH W/ BIT #4, HOLE SLICK |
| | 14:00 | 14:30 | 0.50 | DRLPRD | 12 | | P | - | RIG SERVICE FUNCTION |
| | 14:30 | 20:00 | 5.50 | DRLPRD | 13 | | P | | MU BIT #5 & TIH TO 10,696'. |
| | 20:00 | 21:30 | 1.50 | DRLPRD | 12 | | P | | CHANGE OUT ROTATING HEAD RUBBER. |
| | 21:30 | 22:30 | 1.00 | DRLPRD | 17 | | P | , | CUT & SLIP DRILL LINE. |
| | 22:30 | 23:30 | 1.00 | DRLPRD | 13 | | Р | | TIH F/ 10.696' TO 11.642'. HOLE SLICK. |
| | 23:30 | 6:00 | 6.50 | DRLPRD | 07 | | Р | 11.642.0 | DRILL F/ 11,642' TO 11745'. |
| 10/9/2011 | 6:00 | 16:30 | 10.50 | DRLPRD | 07 | | Р | - | DRILL F/ 11745' - 11920' |
| | 16:30 | 17:00 | 0.50 | DRLPRD | 12 | | Р | 11,920.0 | RIG SERVICE |
| | 17:00 | 6:00 | 13.00 | DRLPRD | 07 | | Р | 11,920.0 | DRILL F/ 11920' - 12135' |
| 10/10/2011 | 6:00 | 11:30 | 5.50 | DRLPRD | 07 | | Р | 12,135.0 | DRILL F/ 12135' - 12205' |
| | 11:30 | 12:00 | 0.50 | DRLPRD | 12 | | Р | 12,205.0 | RIG SERVICE, FUNCTION PIPE RAMS |
| | 12:00 | 6:00 | 18.00 | DRLPRD | 07 | | Р | 12,205.0 | DRILL F/ 12205' - 12565' |
| 10/11/2011 | 6:00 | 17:30 | 11.50 | DRLPRD | 07 | | Р | 12,565.0 | DRILL F/ 12565' - 12682' |
| | 17:30 | 18:00 | 0.50 | DRLPRD | 12 | | Р | 12,682.0 | RIG SERVICE |
| | 18:00 | 0:30 | 6.50 | DRLPRD | 07 | | Р | 12,682.0 | DRILL F/ 12682' - 12760' |
| | 0:30 | 2:00 | 1.50 | DRLPRD | 45 | | N | 12,760.0 | RIG REPAIR, CHANGE 3 VALVES #1 PUMP, #2 PUMP AIR LOCKED, WOULD NOT PRIME |
| | 2:00 | 6:00 | 4.00 | DRLPRD | 07 | | Р | 12,760.0 | DRILL F/ 12760' - 12805' |
| 10/12/2011 | 6:00 | 18:30 | 12.50 | DRLPRD | 07 | | Р | 12,805.0 | DRILL F/ 12805' - 12938' SIMULATE CONNECTION, WELL STATIC, CIRC BOTTOMS UP WHILE DRILLING AHEAD, GAS 4300 UNITS |
| | 18:30 | 1:30 | 7.00 | DRLPRD | 13 | | Р | 12,938.0 | PUMP SLUG, TRIP OUT HOLE WITH BIT #5, HOLE SLICK |
| | 1:30 | 6:00 | 4.50 | DRLPRD | 13 | | Р | 12,938.0 | MU BIT #6 AND TIH TO 8100', FILL EVERY 3000', |
| 10/13/2011 | 6:00 | 8:00 | 2.00 | DRLPRD | 13 | | Р | 12,938.0 | TIH F/8100', HOLE SLICK. |
| | 8:00 | 10:00 | 2.00 | DRLPRD | 07 | | Р | 12,938.0 | DRILL F/ 12943' - 12971' |
| | 10:00 | 10:30 | 0.50 | DRLPRD | 12 | | Р | 12,971.0 | RIG SERVICE, FUNCTION ANNULAR |
| | 10:30 | 6:00 | 19.50 | DRLPRD | 07 | | Р | 12,971.0 | DRILL F/ 12971' - 13445' |
| 10/14/2011 | 6:00 | 10:30 | 4.50 | DRLPRD | 07 | | Р | 13,445.0 | DRILL F/ 13445' - 13536' T.D. EARLY FOR WASHED OUT SWIVEL. (T.D. @ 10:30 A.M. 10/13/2011) |
| | 10:30 | 20:30 | 10.00 | DRLPRD | 45 | | Р | 13,536.0 | WAIT ON NEW SWIVEL, REPLACE WASHED SWIVEL WHILE CIRCULATING THE HOLE @ 13446' |
| | 20:30 | 21:00 | 0.50 | DRLPRD | 12 | | Р | 13,536.0 | RIG SERVICE |
| | 21:00 | 21:30 | 0.50 | DRLPRD | 13 | | Р | 13,536.0 | TIH TO 13536' |
| | 21:30 | 22:30 | 1.00 | DRLPRD | 15 | | Р | 13,536.0 | CIRCULATE BOTTOMS UP 5478 UNITS OF GAS |
| | 22:30 | 1:30 | 3.00 | DRLPRD | 13 | | Р | 13,536.0 | WIPER TRIP TO SHOE. FLOW CHECK. NO FLOW. TIH |
| | 1:30 | 2:30 | 1.00 | DRLPRD | 15 | | Р | 13,536.0 | CIRCULATE BOTTOMS UP 5896 UNITS OF GAS. DROP RABBIT DRIFT DOWN DRILL PIPE. |
| | 2:30 | 6:00 | 3.50 | DRLPRD | 13 | | Р | | POOH FOR OPEN HOLE LOGS W/ FLOW CHECKS |
| 10/15/2011 | 6:00 | 9:00 | 3.00 | DRLPRD | 13 | | Р | - | POOH F/ 5600' FOR LOGS |
| | 9:00 | 9:30 | 0.50 | DRLPRD | 12 | | Р | 13,536.0 | RIG SERVICE |
| | 9:30 | 16:00 | 6.50 | DRLPRD | 12 | | Р | 13,536.0 | PRE JOB SAFETY MEETING WITH HALLIBURTON, RIG UP AND RUN WIRELINE LOGS (ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET) LOG F/ 13540' - 4400' RKB (ACRT, B-SAT, FLEX, DENSITY, NEUTRON-TET) |
| | 16:00 | 22:00 | 6.00 | CASPRD1 | 24 | | Р | 13,536.0 | PRE JOB SAFETY MEETING, RIG UP FRANKS CASERS, RUN 68 JOINTS 4.5" 13.5 # P-110 8 RND RNG 3 CASING. MAKE UP VERSAFLEX HANGER. RD CASERS. CIRCULATE VOLUME OF LINER. |
| | 22:00 | 5:00 | 7.00 | CASPRD1 | 24 | | Р | 13,536.0 | |
| | 5:00 | 6:00 | 1.00 | CASPRD1 | 17 | | Р | 12 520 0 | CIRULATE @ 10804'. CUT & SLIP DRILL LINE. |

WESTERN

| Date | | Time irt-End | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|------------|-------|-----------------|----------------------|---------|--------------|-----|------------|-----------------|---|
| 10/16/2011 | 6:00 | 6:30 | 0.50 | CASPRD1 | 17 | | Р | 13,536.0 | SLIP & CUT DRILL LINE |
| | 6:30 | 9:00 | 2.50 | CASPRD1 | 24 | | Р | 13,536.0 | RIH W/ 3-1/2" DRILL PIPE @ 45' / MIN F/ 10804' TO 13536' |
| | 9:00 | 12:00 | 3.00 | CASPRD1 | 15 | | Р | 13,536.0 | C&C MUD, WAIT ON CEMENTERS |
| | 12:00 | 19:00 | 7.00 | CASPRD1 | 25 | | Р | 13,536.0 | HELD SAFETY MEETING, RIG UP SCHLUMBERGER, PRESSURE TEST LINES TO 1000 / 8000 PSI. PUMP 20 BBLS WATER AHEAD. 224SX (62BBLS) 14.1 PPG YIELD: 1.61, WASH OUT LINES TO PITS - DROPPED DART DISPLACE W/ 121 BBLS 12.7 PPG MUD. BUMPED PLUG WITH 1900 PSI, AT 15:30 HRS FLOATS HELD, 1BBL BACK. DROP BALL PUMP AND RUPTURE DISC @ 5700 PSI, PULL AND PUSH RELEASE FROM TOOL. CASING SET AT 13,533', MARKERS SET AT 12,538' & 11,530' RKB. CIRCULATE 1.5X HOLE VOLUME. 5 BBL CEMENT BACK TO SURFACE. RIG OUT CEMENTERS |
| | 19:00 | 19:30 | 0.50 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN 15 JOINTS DRILL PIPE |
| | 19:30 | 20:00 | 0.50 | CASPRD1 | 19 | | Р | 13,536.0 | POSITIVE TEST CASING TO 1000 PSI FOR 10 MIN |
| | 20:00 | 4:30 | 8.50 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN DRILL PIPE |
| | 4:30 | 6:00 | 1.50 | CASPRD1 | 13 | | Р | 13,536.0 | TIH W/ 24 STANDS DRILL PIPE & 6 STANDS DRILL COLLARS |
| 10/17/2011 | 6:00 | 12:00 | 6.00 | CASPRD1 | 14 | | Р | 13,536.0 | LAY DOWN DRILL PIPE & DRILL COLLARS. FLUSH SURFACE LINES / MANIFOLD W/ FRESH WATER |
| | 12:00 | 14:00 | 2.00 | CASPRD1 | 23 | | Р | 13,536.0 | CHANGE OUT 3 1/2" PIPE RAMS TO 4 1/2" PIPE RAMS |
| | 14:00 | 6:00 | 16.00 | CASPRD1 | 29 | | Р | 13,536.0 | NIPPLE DOWN BOPS, INSTALL 7-1/16" TUBING HEAD W/ CAP PRESSURE TEST TO 5000 PSI FOR 15 MIN, CLEAN PITS, RD FLARE LINES, CLEAN PITS & RIGGING DOWN TOP DRIVE, RIG RELEASED 10/17/2011 @ O6:00 A.M. |
| 10/18/2011 | 6:00 | 6:00 | 24.00 | CASPRD1 | 29 | | Р | 13,536.0 | RIGGING DOWN, 80% RIGGED DOWN, FINAL REPORT |

WESTERN

1 General

1.1 Customer Information

| Company | WESTERN |
|----------------|---------|
| Representative | |
| Address | |

1.2 Well Information

| Well | ROWLEY 3-16B4 | | | |
|-----------------|--------------------------------------|----------|-----------------|--|
| Project | ALTAMONT FIELD | Site | ROWLEY 3-16B4 | |
| Rig Name/No. | | Event | COMPLETION LAND | |
| Start Date | | End Date | | |
| Spud Date | 9/15/2011 | UWI | ROWLEY 3-16B4 | |
| Active Datum | KB @6,405.0ft (above Mean Sea Level) | 1 | | |
| Afe | 143627/42978 / ROWLEY 3-16B4 | | | |
| No./Description | | | | |

2 Summary

2.1 Operation Summary

| Date | 1 | Гіте | Duratio | Phase | Activit | Sub | ОР | MD From | Operation |
|------------|-------|--------|-----------|---------|---------|-----|------|---------|---|
| | Sta | rt-End | n (hr) | | у | | Code | (ft) | |
| 10/27/2011 | 6:00 | 7:30 | 1.50 | SITEPRE | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SETTING DEAD MEN. FILL OUT & REVIEW. |
| | 7:30 | 17:00 | 9.50 | SITEPRE | 18 | | Р | | SET DEAD MEN, CAT WALK & FLOW BACK TANKS. MEASURE DRILL OUT ASSEMBLY. PREP LOCATION FOR COMPLETION |
| 10/28/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON UNLOADING TBG. FILL OUT & REVIEW JSA |
| | 7:30 | 11:00 | 3.50 | WBP | 18 | | Р | | SPOT CATWALK & PIPE RACKS. UNLOAD TBG |
| | 11:00 | 15:00 | 4.00 | WBP | 16 | | Р | | ND BLIND FLANGE. NU BOP STACK |
| | 15:00 | 16:30 | 1.50 | MIRU | 01 | | Р | | RU RIG & WORK FLOOR |
| | 16:30 | 19:00 | 2.50 | WBP | 24 | | Р | | MEASURE & PICK UP 3-3/4" BIT, BIT SUB, 4 2-7/8"DRILL COLLARS, X-OVER & 60 JTS 2-3/8"EUE TBG. SDFN |
| 10/29/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TBG FILLED OUT JSA |
| | 7:30 | 17:30 | 10.00 | WBP | 06 | | Р | | CONTINUED PICKING UP TBG STOPPED AND CIRCULATE DRILLING MUD FROM 2025', 5032' 7100'. CONTIUED IN WELL EOT 8368. SECURED WELL SDFN. |
| 10/30/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING AND RU POWER SWIVEL. |
| | 7:30 | 14:00 | 6.50 | WBP | 06 | | Р | | CIRCULATE DRILLING MUD OUT FROM 8368', 10689'. CONTINUE PU TBG TAGGED @ 13499'. |
| | 14:00 | 18:30 | 4.50 | WBP | 10 | | Р | | RU POWER SWIVEL CIRCULATE OUT DRILLING MUD DRILLED CEMENT FROM 13499' TO 13508'. DRILLED ON FLOAT COLLAR FOR 1HR DID NOT GET THRU IT. CIRCULATE TBG CLEAN POOH 60' SECURED WELL SDFN. |
| 10/31/2011 | | | | | | | | | NO ACTIVITY |
| 11/1/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PUMP SAFETY |
| | 7:30 | 12:30 | 5.00 | WBP | 10 | | Р | | DRILL FLOAT COLLAR TO 13509'CONTINUE DRILLING CMT TO 13529'. CIRCULATE WELL CLEAN |
| | 12:30 | 13:00 | 0.50 | WBP | 18 | | Р | | RD POWER SWIVEL |
| | 13:00 | 17:30 | 4.50 | WBP | 24 | | Р | | TOOH LAYING DOWN 288 JTS 2-7/8"EUE TBG. SDFN |
| 11/2/2011 | 6:00 | 7:30 | 1.50 | WBP | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY ON LAYING DOWN TBG. FILL OUT & REVIEW JSA |

WESTERN

| Date | | ime rt-End | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|-----------|-------|---------------|----------------------|-------|--------------|-----|------------|-----------------|--|
| | 7:30 | 10:00 | 2.50 | WBP | 24 | | Р | | LD 61 JTS 2-7/8"EUE TBG, X-OVER, 88 JTS 2-3/8"EUE TBG, X-OVER, 4 2-7/8"DRILL COLLARS, BIT SUB & BIT. |
| | 10:00 | 12:30 | 2.50 | WBP | 16 | | Р | | NIPPLE DOWN 5K BOP. NU 10K BOP. |
| | 12:30 | 13:30 | 1.00 | RDMO | 02 | | Р | | RD PEAK 1100. MOL |
| 11/3/2011 | 10:00 | 10:30 | 0.50 | CHLOG | 28 | | Р | | HOLD SAFETY MEETING ON LOGGING UNDER PRESSURE |
| | 10:30 | 16:30 | 6.00 | CHLOG | 18 | | Р | | RU WIRELINE TRUCK. RIH W/ CBL,GR,CCL LOGGING TOOL. TAG PBTD @ 13524' WLM. RUN CBL LOG TO 4350' W/ CMT TOP @ 5530' UNDER 3000 PSI PRESSURE. RD WIRELINE TRUCK. SDFN |
| 11/4/2011 | 6:00 | 6:00 | 24.00 | WBP | 42 | | Р | | NO ACTIVETY TODAY. WAITING ON TEST EQUIPMENT |
| 11/5/2011 | 12:00 | 12:30 | 0.50 | WBP | 28 | | Р | | HOLD SAFETY MEETING ON PRESSURE TESTING. FILL OUT & REVIEW JSA. |
| | 12:30 | 14:00 | 1.50 | WBP | 18 | | Р | | PRESSURE TEST CSG TO 8500 PSI FOR 30 MINUTES. TEST OK. BLEED OFF PRESSURE. |
| | 14:00 | 16:00 | 2.00 | STG01 | 21 | | Р | | RU WIRELINE TRUCK & PERFORATE STAGE 1 PERFORATIONS UNDER 1000 PSI. DID NOT SEE ANY PRESSURE CHANGE. RD WIRELINE TRUCK |
| 11/7/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. |
| 11/8/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS |
| 11/9/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS. REPORT SUSPENDED |

| | CTATE OF UTALL | | FORM 9 |
|--|--|---|---|
| | STATE OF UTAH DEPARTMENT OF NATURAL RESOUR | | 5.LEASE DESIGNATION AND SERIAL NUMBER: |
| | DIVISION OF OIL, GAS, AND M | IINING | Fee Fee |
| | RY NOTICES AND REPORT | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| Do not use this form for proposition bottom-hole depth, reenter plus DRILL form for such proposals | osals to drill new wells, significantly deep ugged wells, or to drill horizontal laterals s. | en existing wells below current b. Use APPLICATION FOR PERMIT TO | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP | | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston | | HONE NUMBER: 038 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSH | IP, RANGE, MERIDIAN: 6 Township: 02.0S Range: 04.0W Meridi | ian: U | STATE: UTAH |
| 11. CHE | ECK APPROPRIATE BOXES TO INDIC | TATE NATURE OF NOTICE, REPOR | T, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| Approximate date work will start: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| 11/21/2011 | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATION | S CONVERT WELL TYPE |
| SUBSEQUENT REPORT | ☐ DEEPEN | ✓ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| Date of Work Completion: | OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| _ | ☐ PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ☐ DRILLING REPORT | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| Report Date: | ☐ WILDCAT WELL DETERMINATION | ✓ OTHER | OTHER: Initial Completion |
| | OMPLETED OPERATIONS. Clearly show all I | | s, volumes, etc. |
| Please see attach | ed procedure for details of the includes fracing the well in 2 | | |
| | includes fracing the well in . | r stages. | Approved by the |
| | | | Utah Division of |
| | | | Oil, Gas and Mining |
| | | | Date: 11/17/2011 |
| | | | 1) 5/ (() |
| | | | By: |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| NAME (PLEASE PRINT) Maria S. Gomez | PHONE NUMBE 713 420-5038 | TITLE Principle Regulatory Analyst | |
| SIGNATURE N/A | | DATE 11/17/2011 | |
| .4., | | // | |

Rowley 3-16B4 Initial Completion 43013505690000

The following precautions will be taken until the RCA for the Conover is completed:

- 1. Review torque turning and running of the 7" and 4 1/2" liner of anomalies.
- 2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
- 3. Test all lubricators, valves and BOP's to working pressure.
- 4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
- 5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 4 1/2" casing from the 7" after the frac.
- 6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
- 7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

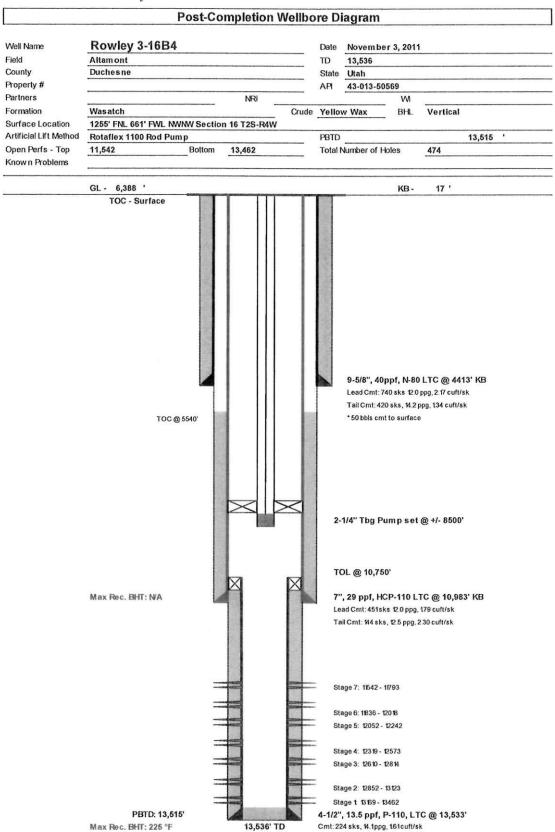
- Stage 1: RU WL unit with 10K lubricator and test to 10000 psi with water. Perforations from $^{\sim}13169' 13462'$ with $^{\sim}5000$ gallons of 15% HCL acid, $^{\sim}6500\#$ of 100 mesh sand and $^{\sim}133000\#$ Inter. Ceramic 20/40.
- Stage 2: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~13140'. Test CBP and casing to 8500 psi. Perforations from ~12852' 13123' with ~5000 gallons of 15% HCL acid, ~7000# of 100 mesh sand and ~133000# Inter. Ceramic 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~12830'. Test CBP and casing to 8500 psi. Perforations from ~12610' 12814' with ~5000 gallons of 15% HCL acid, ~8000# of 100 mesh sand and ~131000# Inter. Ceramic 20/40.

- Stage 4: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ $^{\sim}12590'$. Test CBP and casing to 8500 psi. Perforations from $^{\sim}12319' 12573'$ with $^{\sim}5000$ gallons of 15% HCL acid, $^{\sim}6000\#$ of 100 mesh sand and $^{\sim}125500\#$ Inter. Ceramic 20/40.
- Stage 5: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~12260'. Test CBP and casing to 8500 psi. Perforations from ~12052' 12242' with ~5000 gallons of 15% HCL acid, ~6000# of 100 mesh sand and ~111500# Inter. Ceramic 20/40.
- Stage 6: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~12040'. Test CBP and casing to 8500 psi. Perforations from ~11836' 12018' with ~5000 gallons of 15% HCL acid, ~6500# of 100 mesh sand and ~111500# Inter. Ceramic 20/40.
- Stage 7: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ 11815 . Test CBP and casing to 8500 psi. Perforations from 11542 11793' with 5000 gallons of 15% HCL acid, 8500 of 100 mesh sand and 162000 Inter. Ceramic 20/40.



| | | ompletion Wellb | ore Dia | gram |
|------------------------|---|---------------------------------------|-----------|---|
| Nell Name | Rowley 3-16B4 | | Date | November 3, 2011 |
| Field | Altamont | | 5000 G | 13,536 |
| County | Duchesne | | State | |
| Property # | | | | 43-013-50569 |
| Partners | | NRI | | W |
| Formation | Wasatch | · · · · · · · · · · · · · · · · · · · | e Yellow | |
| Surface Location | 1255' FNL 661' FWL NWNW Sect | ion 16 T2S-R4W | 1011011 | VIII. VEITICAL |
| Artificial Lift Method | | | PBTD | 13,494 ' |
| Open Perfs - Top | Bottom | | | umber of Holes |
| Known Problems | | | | - |
| | | | | |
| | GL - 6,388 ' TOC - Surface | | | KB - 17 ' |
| | TOC @ 5540° | | TOL 7", 2 | 9-5/8", 40ppf, N-80 LTC @ 4413' KB Lead Cmt: 740 sks 12.0 ppg, 2.17 cuft/sk Fall Cmt: 420 sks, 14.2 ppg, 134 cuft/sk 50 bbls cmt to surface @ 10,750' 9 ppf, HCP-110 LTC @ 10,983' KB Cmt: 451sks 12.0 ppg, 179 cuft/sk mt: 144 sks, 12.5 ppg, 2.30 cuft/sk |
| | Float Collar: 13,494' Max Rec. BHT: 225 °F | | | 3.5 ppf, P-110, LTC @ 13,533' ks. M.1ppg. 161cuft/sk |





CONFIDENTIAL

STATE OF UTAH

| KECEIVED | COMLIDEIA | LIAL |
|-------------|----------------|--------|
| JAN 09 2012 | • | |
| J | AMENDED REPORT | FORM 8 |

| | | ı | DEPAR' DIVISIO | | | | | | G DIV | , OF OIL | , gas | & MINI | | hlight o ASE DES ee | changes BIGNATIO | N AND SEF | RIAL NUMBER: | |
|---------------------------------|--------------------------|--------------------|-------------------|----------|-------------|----------------|------------------|-------------------|----------|---------------------|--------------------|-------------|----------------|----------------------------------|-----------------------|----------------|--|----------|
| WELL | CON | MPLE | TION (| OR F | RECO | MPL | ETIO | N RE | POR | T AND | LOG | | 6, IF | INDIAN, | ALLOTTE | E OR TRIBI | NAME | |
| 1a. TYPE OF WELL: | | | VELL 🗾 | | SAS C | | DRY [| <u> </u> | ОТН | | | | 7 UN | IIT or CA | AGREEN | ENT NAME | | |
| b. TYPE OF WORK NEW 2 | : HORIZ. L LATS. L | ¬ 9 | EEP- | Ē | RE- | 1 | DIFF. RESVR. | 7 | ОТН | -0 | | | | | E and NU y 3-16 | | | |
| 2. NAME OF OPERA | | | N L | E | NIRY L | | RESVR. L | | Oini | | | | · .l | NUMBE | | | | |
| El Paso E | & P Co | mpany | , L. P. | | | | | | | | | | | | 50569 | | · | |
| 3. ADDRESS OF OP | | 730B | ату Ноц | ıston | | STATE | TX | ⊴e 77 0 | 002 | | NUMBER: 3) 420- | 5138 | / | Altamo | ont | R WLDCA | | |
| 4. LOCATION OF W AT SURFACE: | ELL (FOOT) 661' FV | AGES) /. NL & 1 | 255' FN | IL. | | | | _ | | | | | 3 | | SECTIO 1: 16 | | HIP, RANGE, | |
| AT TOP PRODUC | and bire | proc | NOTED DEL | OW 6 | 61' E\A | | 355 | | | | | | | | | | | |
| | | | 1255 | 5 | 01 1 11 | Lu | 1220 1 | 141 | | | | | | U.S. | B.& | | STATE | |
| AT TOTAL DEPTI | ± 661' | FWL 8 | 4 22 5 | FNL | | | | | | | | | | uches | sne | | UT | AH |
| 14. DATE SPUDDED 7/21/2011 |); | | T.D. REACH | IED: | 16. DATE | COMPL 3/201 | | A | BANDON | | READY TO | PRODUC | E 🗾 | | VATIONS 394' G | (DF, RKB, L | RT, GL): | |
| 18. TOTAL DEPTH: | MD 13 | | 15 | 9. PLUG | BACK T.D. | | 13,524 13,524 | | | MULTIPLE CO | MPLETIO | NS, HOW | MANY?* | | TH BRIDG UG SET: | GE MD | | |
| 22. TYPE ELECTRIC | | | NICAL LOG | S RUN (| Submit copy | | | | <u> </u> | 23. | | | | | | | | |
| ACRT, B-SA | | | | | | | | - | | WAS WELL WAS DST | RUN? | | NО NO NO | Z · | YES YES YES | (Subm | it analysis) it report) it copy) | |
| | | | | | | | | | | DIRECTION | VAL SUIV | -17 | | <u> </u> | | (045) | | |
| 24. CASING AND LI | NER RECO | RD (Repor | t all strings | set in W | BII) | | | | STAGE (| EMENTER | CEMENT | TYPE & | SLUF | RY | l | | | |
| HOLE SIZE | SIZE/GI | RADE | WEIGHT | | TOP (I | | вотто | | | PTH | NO. OF | SACKS | VOLUM | (BBL) | | IT TOP ** | AMOUNT PL | |
| 30" | 20" | | 52 | _ | 0 | | 4 | | | | | 7 ya | - | | | (circ) | ļ | |
| 17-1/2" | 13-3/8 | J-55 | 54. | | 0 | | 9 | | | | CI. G | 950 1258 | 18 | | | . (circ) | | |
| 12-1/4" | 9-5/8" | N-80 | 40 | | 0 | | 4,4 | | | | CI. G | | | | | (calc) | | |
| 8-3/4" | 7" | p110 | 29 | | 0 | | 10,9 | | | | CI. G | 738 | 24 | | | | | |
| 6-1/8" | 4-1/2" | p110 | 13. | 5 | 10,7 | 50 | 13, | 533 | | | CI. G | 224 | 6 | 2 | 107 | 50 (tol) | | · |
| 25. TUBING RECOR | ND | | | | | | L | | | | | | | | | | | |
| SIZE | | SET (MD) | PACKE | ER SET (| MD) | SIZE | | DEPTH | SET (MD) | PACKE | R SET (MD |) | SIZE | £ | DEPTH SE | T (MD) | PACKER SET | (MD) |
| 2-7/8" | 10 |),847 | 10 | 0,847 | 1 | | | | | | | | | | | | | |
| 26. PRODUCING IN | TERVALS | | | | | | | | | 27. PERFO | RATION RI | CORD | | _ | | | | |
| FORMATION | NAME | то | P (MD) | вотто | M (MD) | TOP | (TVD) | BOTTO | M (TVD) | INTERVA | L (Top/Bot | - MD) | SIZE | NO. HO | _+- | | ATION STATU | s |
| (A) Wasatch | | 11 | ,542 | 13, | 462 | | | | | 13,169 | 13 | 3,462 | 2-3/4 | 68 | Ор | en: 🔽 | Squeezed | |
| (B) | | | | | | | | | | 12,852 | 13 | 3,123 | 2-3/4 | 68 | Op | en 🔽 | Squeezed |] |
| (C) | | \top | | | | | | | | 12,610 | 12 | 2,814 | 2-3/4 | 68 | Ор | en 🗾 | Squeezed |] |
| (D) | | \top | | | | | | | | 12,319 | 12 | 2,573 | 2-3/4 | 68 | Op. | en 🗸 | Squeezed | <u> </u> |
| 28. ACID, FRACTUI | RE, TREATI | MENT, CE | MENT SQUE | EZE, ET | C. | | | | | | | | - | | | | | |
| | INTERVAL | | | | | | | | | OUNT AND T | | | | | | | | |
| 13169 - 134 | 62 | | Acid | ized v | v/3822 | gals | 15% H | CL. F | rac w/ | 6501_#'s | 100 m | esh & | 12598 | 0 #'s | 20/40 | TerraP | rop Pro. | |
| 12852 - 131. | 23 | | Acid | ized v | v/4830 | gals | 15% H | CL. F | rac w | 7001 #'s | s 100 n | nesh 8 | 1309 | 42 #'s | 20/40 | Terral | Prop Pro. | |
| 12610 - 128 | 14 | | Acidi | ized w | //4011 | gals ' | 15% H | CL. F | rac w/ | 8001 #'s | 100 m | nesh & | 13117 | 76 #'s | 20/40 | | Prop Pro. | |
| 29. ENCLOSED AT | TACHMEN1 | rs: | (A11 1 | .ogs | subm | itte | _ | | | compan | | _ | 7 | | | 30. WEL | . STATUS: | |
| | RICAL/MEC | | | CEMENT | VERIFICA | MOIT | = | GEOLOG CORE AN | IC REPOR | | DST REPO | - | _ | TIONAL: | SURVEY | Pr | oducin | g |
| [] 20MD | HONGE | | | | 10 | | | | | | tinue | | | | nt. | <u> </u> | | |

| | 20011011 | | | | LICE TO THE DITE | wn in item #26) | | | | |
|--|---|----------------------------------|--|---|------------------------|------------------------------|-------------------|---------------------|------------------|------------------------|
| 21. INITIAL PRODUCTION DATE FIRST PRODUCED: 12/13/2011 CHOKE SIZE: TBG. PRESS. 20/64th 850 | | TEST DATE 12/27/2 | | HOURS TESTED |): 24 | TEST PRODUCTION RATES: → | OIL - BBL: 826 | GAS - MCF: 1,011 | WATER - BBL: 233 | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRES | S. API GRAVIT 43.90 | | GAS/OIL RATIO 1,223 | 24 HR PRODUCTION RATES: → | OIL - BBL: | GAS - MCF: | WATER - BBL: | INTERVAL STATUS |
| | | | <u> </u> | INT | ERVAL B (As sho | wn in item #26) | | , | | |
| DATE FIRST PRO | ODUCED: | TEST DATE | | HOURS TESTED |): | TEST PRODUCTION RATES: → | OIL - BBL | GAS - MCF: | WATER - BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRES | S. API GRAVIT | Y BTU - GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL - BBL: | GAS - MCF: | WATER - BBL: | INTERVAL STATUS |
| | · . | | | INT | ERVAL C (As sho | wn in item #26) | | | | |
| DATE FIRST PR | ODUCED: | TEST DATE | | HOURS TESTED |): | TEST PRODUCTION RATES: → | OIL - BBL | GAS - MCF: | WATER BBL: | PROD, METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PRES | S. API GRAVIT | Y BTU - GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL - BBL: | GAS - MCF: | WATER - BBL: | INTERVAL STATUS |
| | <u> </u> | • | | INT | ERVAL D (As sho | wn in item #26) | | | | |
| DATE FIRST PR | ODUCED: | TEST DATE | | HOURS TESTER |): | TEST PRODUCTION RATES: → | OIL - BBL: | GAS - MCF: | WATER - BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS | CSG PRES | S. API GRAVIT | Y BTŲ – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL - BBL: | GAS - MCF: | WATER BBL: | INTERVAL STATUS |
| 12. DISPOSITIO | N OF GAS (Sold, | Used for Fue | l, Vented, Etc.) | Sold | | | | | | |
| 3. SUMMARY | OF POROUS ZON | ES (Include A | quifers): | | | 34 | 4. FORMATION | (Log) MARKERS: | | |
| Show all importa- ested, cushion u | nt zones of porosit ised, time tool oper | y and contents n, flowing and | thereof: Cored in shut-in pressures | tervals and all drill-sten and recoveries. | i tests, including de | epth interval | | | | |
| Formatio | on | Top (MD) | Bottom (MD) | Descrip | tions, Contents, etc | s. | | Name | (| Top Measured Depth) |
| | | | | | | | ower Gre | en River | | 9,385 |
| | | | | | | 1 | Wasatch | CHINO | | 10,861 |
| | | | | | | 1 | | | | |
| | | | | | | 1 | | | | |
| is. Additiona | L REMARKS (Inci | ude plugging | procedure) | | | 1 | | | | |
| ss. additiona | L REMARKS (Inci | ude plugging | procedure) | | | 1 | | | | |
| | | | | is complete and con | ect as determined | 1 | Wasatch | | | |
| 36. I hereby cer | rify that the foreg | oing and atta | ched information | is complete and con | ect as determined | I from all available reco | Wasatch | | | |
| 36. I hereby cer | | oing and atta | ched information | | ect as determined | I from all available reco | ords. | | | |

- drilling horizontal laterals from an existing well bore
 recompleting to a different producing formation
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations.
- ** ITEM 24: Cement Top Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

801-359-3940 Fax:

Attachment to Well Completion Report

Form 8 Dated January 9, 2012

Well Name: Rowley 3-16B4

Items #27 and #28 Continued

27. Perforation Record

| Interval (Top/Bottom – MD) | Size | No. of Holes | Perf. Status |
|----------------------------|-------|--------------|--------------|
| 12052 - 12242 | 2-3/4 | 68 | Open |
| 11836 – 12018 | 2-3/4 | 68 | Open |
| 11542 – 11793 | 2-3/4 | 68 | Open |

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Interval | Amount and Type of Material |
|---------------|--|
| 12319 – 12573 | Acidize w/3780 gals 15% HCL. Frac with 6001 #'s 100 mesh & 122484 #'s 20/40 TerraProp Pro. |
| 12052 - 12242 | Acidize w/3780 gals 15% HCL. Frac with 9000 #'s 100 mesh & 110039 #'s 20/40 TerraProp Pro. |
| 11836 - 12018 | Acidize w/3276 gals 15% HCL. Frac with 9000 #'s 100 mesh & 113519 #'s 20/40 TerraProp Pro. |
| 11542 - 11793 | Acidize w/4175 gals 15% HCL. Frac w/8501 #'s 100 mesh & 162001 #'s 20/40 TerraProp Pro. |

JAN 0 9 2012

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

El Paso E&P Company, L.P.

Operator Account Number: N 3065

Address:

1001 Louisiana, Room 2730D

city Houston

zip 77002 state TX

Phone Number: (713) 420-5038

Well 1

| API Number | Well | Name | QQ | QQ Sec Twp | | | Rng County | | |
|------------------|--------------------------|----------------------|----------------------|------------|---|-------------------------------------|-------------|--|--|
| 4301350569 | Rowley 3-16B4 | | NWNW 16 2S Spud Date | | | 4W | 4W Duchesne | | |
| Action Code | Current Entity Number | New Entity Number | | | | Entity Assignment Effective Date | | | |
| E | 18151 | 18151 | 7 | /21/201 | 1 | 12/13/2011 | | | |
| Comments: Initia | Completion WSTC | | CO | | | AL / | /31/12 | | |

Mall 2

| API Number | Well | Name | QQ | Sec | Twp | Rng | County | | |
|------------------|--------------------------|----------------------|-----------|---------|-------------|-----|----------------------------------|--|--|
| 4301350572 | El Paso 4-21B4 | SWSE 21 2S | | | 4W Duchesne | | | | |
| Action Code | Current Entity Number | New Entity Number | Spud Date | | | | Entity Assignment Effective Date | | |
| E | 18152 | 18152 | 007 | /31/201 | 11171 | 1 | 12/23/2011 | | |
| Comments: Initia | l Completion WSTC | | CU | | en i i | | 1/3/112 | | |

Well 3

| API Number | Well N | lame | QQ | Sec | Twp | Rng | County | |
|------------------|--------------------------|----------------------|-------------------------|-----|-----|-------------------------------------|--------|--|
| 4301350711 | Lake Fork Ranch 3-25 | NWNW | 25 | 28 | 4W | Duchesne | | |
| Action Code | Current Entity Number | New Entity Number | Spud Date | | | Entity Assignment Effective Date | | |
| E | 18220 | 8 | /31/201 | 1 | | 12/14/2011 | | |
| Comments: Initia | Completion WSTC | | 18220 8/31/2011 CONTINE | | | | | |

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

RECEIVED

Maria S. Gomez

Name (Please Print)

Signature

Title

Principle Regulatory Analyst

1/27/2012

Date

(5/2000)

JAN 2 7 2012

| | STATE OF UTAH | | | FORM 9 | | | |
|--|--|---|---|---|--|--|--|
| ι | DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND N | | i | 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee | | | |
| SUNDR | Y NOTICES AND REPORT | S ON | WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | | | |
| Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form | en existing wells below aterals. Use APPLICATION | 7.UNIT or CA AGREEMENT NAME: | | | | | |
| 1. TYPE OF WELL Oil Well | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 | | | | | |
| 2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP | | | | 9. API NUMBER: 43013505690000 | | | |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana St., Housto | on, TX, 77002 713 | PHO 420-503 | NE NUMBER: 38 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT | | | |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | | COUNTY: DUCHESNE | | | |
| QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section: | HP, RANGE, MERIDIAN: 16 Township: 02.0S Range: 04.0W I | Meridian | ı: U | STATE: UTAH | | | |
| 11. CHECI | K APPROPRIATE BOXES TO INDIC | CATE NA | ATURE OF NOTICE, REPOR | RT, OR OTHER DATA | | | |
| TYPE OF SUBMISSION | | | TYPE OF ACTION | | | | |
| | ACIDIZE | | LTER CASING | CASING REPAIR | | | |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | ☐ c | HANGE TUBING | CHANGE WELL NAME | | | |
| | CHANGE WELL STATUS | | OMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE | | | |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | □ F | RACTURE TREAT | NEW CONSTRUCTION | | | |
| | OPERATOR CHANGE | P | LUG AND ABANDON | PLUG BACK | | | |
| SPUD REPORT | PRODUCTION START OR RESUME | □ R | ECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION | | | |
| Date of Spud: | REPERFORATE CURRENT FORMATION | □ s | IDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON | | | |
| | TUBING REPAIR | □v | ENT OR FLARE | WATER DISPOSAL | | | |
| DRILLING REPORT Report Date: | WATER SHUTOFF | □s | I TA STATUS EXTENSION | APD EXTENSION | | | |
| 3/5/2012 | WILDCAT WELL DETERMINATION | | THED | OTHER: | | | |
| to proper property on | COMPLETED OPERATIONS. Clearly sho | | discrete late late late and late and late and | <u> </u> | | | |
| | Final Report. Well on prod | - | | Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 07, 2012 | | | |
| NAME (PI FASE PRINT) | PHONE NUI | MBER | TITLE | | | | |
| Maria S. Gomez | 713 420-5038 | WBEK | Principle Regulatory Analys | t | | | |
| SIGNATURE N/A | | | DATE 3/5/2012 | | | | |

WESTERN US

| Date | 1 | Гіте | Duratio | Phase | Activit | Sub | OP | MD From | Operation |
|------------|----------------|---------|-----------|-------|---------|-----|------|---------|---|
| | | art-End | n (hr) | | у | | Code | (ft) | · |
| | 7:30 | 10:00 | 2.50 | WBP | 24 | | Р | | LD 61 JTS 2-7/8"EUE TBG, X-OVER, 88 JTS 2-3/8"EUE TBG, |
| | 10:00 | 12:30 | 2.50 | WBP | 16 | | Р | | X-OVER, 4 2-7/8"DRILL COLLARS, BIT SUB & BIT. NIPPLE DOWN 5K BOP. NU 10K BOP. |
| | 12:30 | 13:30 | 1.00 | RDMO | 02 | | Р | | RD PEAK 1100. MOL |
| 11/3/2011 | 10:00 | 10:30 | 0.50 | CHLOG | 28 | | Р | | HOLD SAFETY MEETING ON LOGGING UNDER PRESSURE |
| 11/3/2011 | 10:30 | 16:30 | 6.00 | CHLOG | 18 | | Р | | RU WIRELINE TRUCK, RIH W/ CBL.GR.CCL LOGGING TOOL, TAG |
| | | | | | | | • | | PBTD @ 13524' WLM. RUN CBL LOG TO 4350' W/ CMT TOP @ 5530' UNDER 3000 PSI PRESSURE. RD WIRELINE TRUCK. SDFN |
| 11/4/2011 | 6:00 | 6:00 | 24.00 | WBP | 42 | | Р | | NO ACTIVETY TODAY. WAITING ON TEST EQUIPMENT |
| 11/5/2011 | 12:00 | 12:30 | 0.50 | WBP | 28 | | Р | | HOLD SAFETY MEETING ON PRESSURE TESTING. FILL OUT & REVIEW JSA. |
| | 12:30 | 14:00 | 1.50 | WBP | 18 | | Р | | PRESSURE TEST CSG TO 8500 PSI FOR 30 MINUTES. TEST OK. BLEED OFF PRESSURE. |
| | 14:00 | 16:00 | 2.00 | STG01 | 21 | | Р | | RU WIRELINE TRUCK & PERFORATE STAGE 1 PERFORATIONS UNDER 1000 PSI. DID NOT SEE ANY PRESSURE CHANGE. RD WIRELINE TRUCK |
| 11/7/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. |
| 11/8/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS |
| 11/9/2011 | 6:00 | 6:00 | 24.00 | STG01 | 44 | | Р | | WELL IS READY TO FRAC STAGE 1. WAITING ON ORDERS. REPORT SUSPENDED |
| 11/29/2011 | 6:00 | 7:00 | 1.00 | STG01 | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRACTURING |
| | 7:00 | 9:00 | 2.00 | STG01 | 35 | | Р | | MIRU FRAC EQUIPMENT |
| | 9:00 | 11:00 | 2.00 | STG01 | 35 | | Р | | STAGE 1; PRESSURE TEST LINES TO 9645 PSI. OPEN WELL. SICP 2670 PSI. BREAK DOWN STAGE 1 PERFORATIONS 13462' TO 13169' @ 5598 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 5372 PSI. 5 MINUTE 5326 PSI. 10 MINUTE 5274 PSI. 15 MINUTE 5221 PSI. TREATED STAG 1 AS PER PROCEDURE PAD 100M SPACER 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP 4# TERRA PROP STG FLUSH TO TOP PERFISDP 5753 PSI. 5 MIN 5565 PSI. 10 MINUTE 5486 PSI. 15 MINUTE 5448 PSI. AVG RATE 59.9 BPM. AVG PSI 6469 PSI. MAX RATE 66.3 BPM. MAX PSI 7522 PSI. TURN OVER TO WIRELINE |
| | 11:00 | 13:00 | 2.00 | STG02 | 21 | | Р | | STAGE 2; SET COMPOSITE FRAC PLUG @ 13140' PRESSURE ON WELL 5400 PSI PERFORATE STAGE 2 PERFORATIONS 13123' TO 12852', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |
| | 13:00 15:00 | 15:00 | 1.50 | STG02 | 21 | | P | | STAGE 2; PRESSURE TEST LINES TO 9645 PSI. OPEN WELL. SICP 5185 PSI. BREAK DOWN STAGE 2 PERFORATIONS 13123' TO 12854' @ 5272 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 5270 PSI. 5 MINUTE 4718 PSI. 10 MINUTE 4390 PSI. 15 MINUTE 4650 PSI. TREATED STAG 2 AS PER PROCEDURE PAD 100M SPACER 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP 4# TERRA PROP STG FLUSH TO TOP PERFISDP 5911 PSI. 5 MIN 5597 PSI. 10 MINUTE 5431 PSI. 15 MINUTE 5350 PSI. AVG RATE 59.1 BPM. AVG PSI 6740 PSI. MAX RATE 66.4 BPM. MAX PSI 7884 PSI. TURN OVER TO WIRELINE STAGE 3; SET COMPOSITE FRAC PLUG @ 12830' PRESSURE |
| | | | | | | | | | ON WELL 5300 PSI PERFORATE STAGE 3 PERFORATIONS 12814' TO 12610', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |

| Date | 1 | Гіте | Duratio | Phase | Activit | Sub | OP | MD From | Operation |
|------------|-------|--------|--------------|-------|---------|-----|------|---------|---|
| | Sta | rt-End | n | | у | | Code | (ft) | |
| | 16:30 | 18:30 | (hr) 2.00 | STG03 | 35 | | P | | STAGE 3; PRESSURE TEST LINES TO 9130 PSI. OPEN WELL SICP 4183 PSI. BREAK DOWN STAGE 3 PERFORATIONS 12814' TO 12610' @ 6000 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 4485 PSI. 5 MINUTE 3714 PSI. 10 MINUTE 3314 PSI. 15 MINUTE 3082 PSI. TREATED STAG 3 AS PER PROCEDURE PAD 100M SPACER 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP 4# TERRA PROP STG FLUSH TO TOP PERFISDP 6036 PSI. 5 MIN 5618 PSI. 10 MINUTE 5362 PSI. 15 MINUTE 5156 PSI. AVG RATE 53.9 BPM. AVG PSI 6919 PSI. MAX RATE 57 |
| | 18:30 | 21:00 | 2.50 | STG04 | 21 | | Р | | BPM. MAX PSI 8325 PSI. TURN OVER TO WIRELINE STAGE 4; SET COMPOSITE FRAC PLUG @ 12590' PRESSURE ON WELL 4860 PSI PERFORATE STAGE 4 PERFORATIONS 12573' TO 12319', 21 NET FEET 63 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |
| 11/30/2011 | 6:00 | 7:00 | 1.00 | STG04 | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRACTURING |
| | 7:00 | 8:30 | 1.50 | STG04 | 35 | | Р | | FINISH HEATING FRAC TANKS |
| | 8:30 | 9:30 | 1.00 | STG04 | 35 | | Р | | FRAC CREW TO LOCATION AFTER 8 HRS OFF HSM WRITE AND REVIEW JSA TOPIC; FRACURING START FRAC EQUIPMENT |
| | 9:30 | 12:30 | 3.00 | STG04 | 35 | | P | | HOLD PRE JOB SAFTEY MEETINGSTAGE 4; PRESSURE TEST LINES TO 9450 PSI. OPEN WELL SICP 1333 PSI. BREAK DOWN STAGE 4 PERFORATIONS 12573' TO 12319' @ 6121 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 5194 PSI. 5 MINUTE 5194 PSI. 10 MINUTE 4867 PSI. 15 MINUTE 4474 PSI. REPARE PMP TREATED STAG 4 AS PER PROCEDURE PAD 100M SPACER 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP 4# TERRA PROP STG FLUSH TO TOP PERFISDP 7300 PSI. 5 MIN 6297 PSI. 10 MINUTE 5997 PSI. 15 MINUTE 5778 PSI. AVG RATE 54.3 BPM. AVG PSI 6593 PSI. MAX RATE 54.3 BPM. MAX PSI 8455 PSI. TURN OVER TO WIRELINE |
| | 12:30 | 14:00 | 1.50 | STG05 | 21 | | Р | | STAGE 5; SET COMPOSITE FRAC PLUG @ 12260' PRESSURE ON WELL 5548 PSI PERFORATE STAGE 5 PERFORATIONS 12242' TO 12052', 22 NET FEET 66 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |
| | 14:00 | 17:00 | 3.00 | STG05 | 35 | | Р | | HOLD PRE JOB SAFTEY MEETINGSTAGE 5; PRESSURE TEST LINES TO 9450 PSI. OPEN WELL SICP 1936 PSI. BREAK DOWN STAGE 5 PERFORATIONS 12242' TO 12052' @ 4646 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 4302 PSI. 5 MINUTE 2901 PSI. 10 MINUTE 2126 PSI. 15 MINUTE 1459 PSI. SECURE WELL ATTEMPT TO REPARE BLENDER FAILED R/D BLENDER GET NEW BLENDER OUT OF VERNAL IN THE AM |
| 12/1/2011 | 6:00 | 8:30 | 2.50 | STG05 | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; FRACTURING MIRU NEW BLENDER |
| | 8:30 | 10:30 | 2.00 | STG05 | 35 | | Р | | HOLD PRE JOB SAFTEY MEETINGSTAG 5CHANGE PROCEDURE PER JORDAN NELSON ADD 3000# TO PAD 100M SPACER DIVIDE 4# STAGE INTO 1,2, & 3# STAGES (8000# PER STG) AND DROP STG 4 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP FLUSH TO TOP PERFISDP 6144 PSI. 5 MIN 5650 PSI. 10 MINUTE 5309 PSI. 15 MINUTE 4999 PSI. AVG RATE 66 BPM. AVG PSI 6261 PSI. MAX RATE 66 BPM. MAX PSI 7210 PSI. TURN OVER TO WIRELINE |

Sundry Number: 23618 API Well Number: 43013505690000

WESTERN US

| Date | Date Time Start-End | | Duratio | Phase | Activit | Sub | OP Contr | MD From | Operation |
|------------|------------------------|---------|-----------|-------|---------|-----|-------------|---------|---|
| | Sta | irt-End | n (hr) | | У | | Code | (ft) | |
| | 10:30 | 11:30 | 1.00 | STG06 | 21 | | Р | | STAGE 6; SET COMPOSITE FRAC PLUG @ 12040' PRESSURE ON WELL 5548 PSI PERFORATE STAGE 6 PERFORATIONS 12018' TO 11836', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |
| | 11:30 | 15:00 | 3.50 | STG06 | 35 | | P | | STAGE 6; PRESSURE TEST LINES TO 9230 PSI. OPEN WELL. SICP 1835 PSI. BREAK DOWN STAGE 6 PERFORATIONS 12018' TO 11836' @ 5803 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 3900 PSI. 5 MINUTE 2690 PSI. 10 MINUTE 2025 PSI. 15 MINUTE 1666 PSIHOLD PRE JOB SAFTEY MEETINGFRAC STG 6CHANGE PROCEDURE PER JORDAN NELSON ADD 3000# TO PAD 100M SPACER DEVIDE 4# STAGE INTO 1,2, & 3# STAGES (8000# PER STG) AND DROP STG 4 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP FLUSH TO TOP PERFISDP 5050 PSI. 5 MIN 4708 PSI. 10 MINUTE 4424 PSI. 15 MINUTE 4327 PSI. AVG RATE 70.9 BPM. AVG PSI 5671PSI. MAX RATE 71.1 BPM. MAX PSI 6588 PSI. TURN OVER TO WIRELINE |
| | 15:00 | 16:30 | 1.50 | STG07 | 21 | | Р | | STAGE 7; SET COMPOSITE FRAC PLUG @ 11815' PRESSURE ON WELL 3850 PSI PERFORATE STAGE 7 PERFORATIONS 11793' TO 11542', 23 NET FEET 69 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS |
| | 16:30 | 19:30 | 3.00 | STG07 | 35 | | Р | | STAGE 7; PRESSURE TEST LINES TO 8960 PSI. OPEN WELL. SICP 2344 PSI. BREAK DOWN STAGE 7 PERFORATIONS 11793' TO 11542' @ 5285 PSI, PUMPING 7 BPM. TREAT W/ 5000 GAL 15% HCL ACID FLUSHING TO BOTTOM PERF PLUS 10 BBLS. ISDP 4087 PSI. 5 MINUTE 3831 PSI. 10 MINUTE 3658 PSI. 15 MINUTE 3511 PSI. TREATED STAG 7 AS PER PROCEDURE PAD 100M SPACER 1# TERRA PROP 2# TERRA PROP 3# TERRA PROP 3.5# TERRA PROP 4# TERRA PROP STG FLUSH TO TOP PERFISDP 4918 PSI. 5 MIN 4580 PSI. 10 MINUTE 4308 PSI. 15 MINUTE 4170 PSI. AVG RATE 59.9 BPM. AVG PSI 6469 PSI. MAX RATE 66.3 BPM. MAX PSI 7522 PSI. |
| | 19:30 | 22:00 | 2.50 | RDMO | 02 | | Р | | SECURE WELL R/D PERFORATERS R/D FRAC EQUIPMENT R/D STINGER STACK FRAC TANKS |
| 12/2/2011 | | | | | | | | | WELL SHUT IN WAIT ON COIL CTS PUSHED BACK TO TUEDAY OR WENDAY |
| 12/3/2011 | | | | | | | | | WAIT ON COIL CTS PUSHED BACK TO TUEDAY DEC 6 |
| 12/4/2011 | | | | | | | | | WAIT ON COIL CTS PUSHED BACK TO TUEDAY DEC 6 |
| 12/5/2011 | | | | | | | | | WAIT ON COIL |
| 12/6/2011 | | | | | | | | | WAIT ON COIL |
| 12/7/2011 | | | | | | | | | WAIT ON COIL |
| 12/8/2011 | | | | | | | | | WAIT ON COIL ETA DEC 9 2011 |
| 12/9/2011 | | | | | | | | | WAIT ON COIL ETA DEC 9 2011 |
| 12/10/2011 | 6:00 | 13:00 | 7.00 | POST | 18 | | Р | | CREW TRAVEL TO LOCATION HSM AND ORIENTATION WRITE AND REVIEW JSA TOPIC; RIGGING UP |
| | 13:00 | 17:30 | 4.50 | CTU | 16 | | Р | | MIRU COIL UNIT |
| 12/11/2011 | 6:00 | 7:00 | 1.00 | CTU | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; PRESSURE AND FLOW BACK |
| | 7:00 | 10:00 | 3.00 | CTU | 39 | | Р | | R/U HOT OIL TRUCK THAW WELL HEAD FILL COIL TBG R/U TOOLS TEST COIL TO 8000 PSI |

| Date | | ime rt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|------------|-------|---------------|---------------|--------|--------------|-----|------------|-----------------|---|
| | 10:00 | 20:00 | (hr) 10.00 | СТИ | 39 | | Р | | OPEN WELL OPEN PRESSURE 2700 PSI TIH w COIL TBG CIRC 1/2" BPM DRILL OUT PLUGS AT 11812', 12038', 12259', 12585',12826', 13126' C/O 4 1/2" CSG TO PBTD AT 13536' COIL TBG MEASUREMENTS CIRC WELL CLEAN TOH TO LINER CIRC |
| 12/12/2011 | 6:00 | 7:00 | 1.00 | WLWORK | 28 | | Р | | SWEEP CONT TOH SECURE WELL SHUT IN PRESSURE 1500 PSI R/D COIL UNIT CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA |
| | 7:00 | 9:30 | 2.50 | WLWORK | 15 | | Р | | TOPIC; PRESSURE MIRU WIRELINE |
| | | 15:00 | | | 20 | | P | | |
| | 9:30 | | 5.50 | WLWORK | - | | • | | P/U RIH w 4 1/2" RETRIEVABLE WIRELINE SET PKR CSIP 2200 PSI TIH SET PKR AT 10831' TOH w WIRELINE RDMO OPEN WELL ON A 20/64 CHOCK TO FLOW BACK TANK |
| 12/13/2011 | 6:00 | 7:30 | 1.50 | MIRU | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MMETING ON ROADING RIG. FILL OUT & REVIEW JSA |
| | 7:30 | 11:30 | 4.00 | MIRU | 01 | | Р | | MOVE RIG TO LOCATION & RIG UP. RU PUMP & PUMPLINES. SPOT CATWALK & PIPE RACKS. MOVE TBG INTO POSITION |
| | 11:30 | 17:30 | 6.00 | INSTUB | 24 | | Р | | TALLY & TIH W/ WEATHERFORD ON/OFF TOOL, 5 JTS 2-3/8"EUE TBG, X-OVER, 2-7/8" SEAT NIPPLE & 278 JTS 2-7/8" EUE TBG. SDFN W/ EOT @ 8854' |
| 12/14/2011 | 6:00 | 7:30 | 1.50 | INSTUB | 28 | | Р | | TRAVEL TO LOCATION. HOLD SAFETY MEETING ON PICKING UP TBG. FILL OUT & REVIEW JSA |
| | 7:30 | 9:30 | 2.00 | INSTUB | 24 | | Р | | PU 65 JTS 2-7/8"EUE TBG. TAG PKR @ 10847'. |
| | 9:30 | 12:00 | 2.50 | INSTUB | 06 | | Р | | REVERSE CIRCULATE WELL W/ 400 BBLS PKR FLUID |
| | 12:00 | 14:30 | 2.50 | INSTUB | 16 | | Р | | ND BOP. LATCH PKR & LAND TBG IN 15K TENSION. NU & TEST WELLHEAD TO 5000 PSI |
| | 14:30 | 15:30 | 1.00 | INSTUB | 18 | | Р | | PRESSURE TEST PUMP LINE. PRESSURE TEST ANNULUS TO 1000 PSI. TESTED GOOD. PUMP OUT PLUG IN PKR @ 3500 PSI. PRESSURE DROPPED TO 1800 PSI |
| | 15:30 | 16:00 | 0.50 | INSTUB | 16 | | Р | | RU FLOWLINE. |
| | 16:00 | 17:00 | 1.00 | RDMO | | | Р | | OPEN WELL TO FLOW BACK TANK. RD RIG & MOVE OFF LOCATION |
| | 17:00 | 6:00 | 13.00 | FB | 19 | | Р | | FLOW WELL TO FLOW BACK TANK FOR 2 HRS BEFOR TURNING TO TREATOR. RECOVEED 86 MCF GAS, 183 BBLS OIL & 144 BBLS WTR. WELL FLOWING @ 2250 PSI ON A 14/64" CHOKE. |
| 12/15/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON CHECKING CHOKE. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 17 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 567 MCF GAS, 523 BBLS OIL, 147 BBLS WTR, FLOWING @ 2200 PSI ON A 14/64" CHOKE |
| 12/16/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON SLIPS TRIPS & FALLS |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 766 MCF GAS,682 BBLS OIL, 164 BBLS WTR FLOWING @ 2000 PSI ON 16/64" CHOKE |
| 12/17/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON GUAGING TANKS. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 817 MCF GAS, 654 OIL,147 BBLS WATER, FLOWING @ 1850 PSI ON AN 18?64" CHOKE |
| 12/18/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON CHECKING CHOKE. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 771 MCF GAS, 613 BBLS OIL, 138 BBLS WATER FLOWING @ 1750 PSI ON A 16/64" CHOKE |
| 12/19/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON LOADING OIL. FILL OUT & REVIEW JSA |

Sundry Number: 23618 API Well Number: 43013505690000

WESTERN US

| Date | | Γime irt-End | Duratio n | Phase | Activit y | Sub | OP Code | MD From (ft) | Operation |
|------------|-------|-----------------|---------------|--------|--------------|-----|------------|-----------------|---|
| | 6:30 | 6:00 | (hr) 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 723 MCF GAS, 598 BBLS OIL, 132 BBLS WATER FLOWING @ 1700 PSI ON A 16/64" CHOKE |
| 12/20/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON LIGHTING BURNERS. FILL OUT & REVIEW JSA |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 686 MCF GAS, 573 BBLS OIL, 125 BBLS WTR FLOWING @ 600 PSI ON A 16/64" CHOKE. |
| 12/21/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | SLIPS TRIPS & FALLS |
| | 6:30 | 6:00 | 23.50 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 719 MCF GAS, 598 BBLS OIL, 135 BBLS WATER FLOWING @ 1475 PSI ON AN 18/64" CHOKE |
| 12/22/2011 | 6:00 | 6:30 | 0.50 | FB | 28 | | Р | | HOLD SAFETY MEETING ON CHANGING CHOKE. FILL OUT Z& REVIEW JSA |
| | 6:30 | 6:30 | 0.00 | FB | 19 | | Р | | FLOW WELL TO PRODUCTION FACILITY. RECOVERED 708 MCF GAS, 575 BBLS OIL, 136 BBLS WTR, FLOWING @ 1350 PSI ON AN 18/64" CHOKE |
| 1/10/2012 | 13:00 | 14:00 | 1.00 | WLWORK | 28 | | Р | | ROAD TO LOCATION HSM WRITE AND REVIEW JSA TOPIC PRESSURE |
| | 14:00 | 17:30 | 3.50 | WLWORK | 22 | | Р | | MIRU P/U RIH w 1 3/4" BUMPER AND JAR TIH TAG AT 11700' WORK BUMPER AND JARS TO 13520' TOH w L/D BUMPER AND JARS TURN WELL OVER TO PRODUCTION |
| 1/11/2012 | 6:00 | 7:00 | 1.00 | WLWORK | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; PRESSURE |
| | 7:00 | 12:00 | 5.00 | WLWORK | 22 | | Р | | R/U TIH w SPECTRA SCAN TOOL RUN TRACER LOG FROM 11100' TO 13524' TOH L/D TOOL |
| | 12:00 | 14:30 | 2.50 | WLWORK | 22 | | Р | | P/U TIH w PRODUCTION LOGGING TOOLS ATTEMPT TO RUN LOG UNABLE TO GET THE TOOL TO OPERATE CORRECTLY TOH w TOOLS FOUND COMPOSIT PLUG CUTTINGS |
| | 14:30 | 17:30 | 3.00 | WLWORK | 22 | | Р | | CLEAN TOOL RIH ATTEMPT TO RUN PRODUCTION LOG FAILED TOOL STARTED TO WORK AND THEN FAILED TOH W TOOLS FOUND COMPOSIT PLUG CUTTING |
| | 17:30 | 19:30 | 2.00 | | | | | | CLEAN TOOLS RIN ATTEMPT TO LOG TOOL WORKED GOOD TO 12500' AND THEN FAILED TOH L/D TOOL SECURE WELL SDFN |
| 1/12/2012 | 14:00 | 15:00 | 1.00 | PRDHEQ | 28 | | Р | | ROAD FROM ELPASO 4-21B4 TO LOCATIONHSM REVIEW JSA TOPIC; PRESSUREMIRU |
| | 15:00 | 17:30 | 2.50 | PRDHEQ | 22 | | Р | | ATTEMPT TO CALIBRATE LOGGING TOOLS FAILED SECURE WELL SDFN WELL FLOWING 450 PSI ON A 22/64 CHOCK |
| 1/13/2012 | 6:00 | 7:00 | 1.00 | WLWORK | 28 | | Р | | CREW TRAVLE TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; PRESSURE |
| | 7:00 | 14:00 | 7.00 | WLWORK | 22 | | Р | | R/U NEW LOGGING TOOL RIH AND LOG FROM 11400' TO 13500' SPINNER QUIT SPINNING FLOW WELL ON 32/48 ATTEMPT TO CLEAN FAILED CONTINUTE LOGGING CHOCK WELL BACK TO 20/48 FINISH LOGGING TOH w LOGGING TOOLS L/D SAME RDMO |

Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET (for state use only)

| ROUTING | |
|---------|--|
| CDW | |

| X - Change of Operator (Well Sold) | | Operator Name Change/Merger | | | | | | | | | | |
|--|---------------------------|--|-------|--------------------|--------------------|--|--------------|----------------|--|--|--|--|
| The operator of the well(s) listed below has chan | ged, e | effective: | | | | 6/1/2012 | | | | | | |
| FROM: (Old Operator): | | | | TO: (New Or | perator): | | | | | | | |
| N3065- El Paso E&P Company, L.P. | | | | N3850- EP Ene | | ompany, L.P. | | | | | | |
| 1001 Louisiana Street | | | | 1001 Louisiana | | , , , , , , | | | | | | |
| Houston, TX. 77002 | | | | Houston, TX. 77002 | | | | | | | | |
|] | | | | 1 | | | | | | | | |
| Phone: 1 (713) 997-5038 | | | | Phone: 1 (713) | 997-5038 | | | | | | | |
| CA No. | | | | Unit: N/A | | | | | | | | |
| WELL NAME | SEC | TWN R | NG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS | | | | |
| See Attached List | | | | | <u> </u> | <u> </u> | | | | | | |
| OPERATOR CHANGES DOCUMENT Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation wa 2. (R649-8-10) Sundry or legal documentation wa 3. The new company was checked on the Depart 4a. Is the new operator registered in the State of U 5a. (R649-9-2) Waste Management Plan has been re 5b. Inspections of LA PA state/fee well sites comp 5c. Reports current for Production/Disposition & S | as recoment Jtah: eccive | eived from eived from of Comme ed on: | the | NEW operator | on: orporations | 6/25/2012 6/25/2012 Database on: 2114377-0181 | | 6/27/2012 | | | | |
| 6. Federal and Indian Lease Wells: The BL | | | IA h | | - e merger, na | me change. | | | | | | |
| or operator change for all wells listed on Feder | | | | | BLM | N/A | BIA | Not Received | | | | |
| 7. Federal and Indian Units: | | | | | | - | | | | | | |
| The BLM or BIA has approved the successor | r of m | nit operato | r for | wells listed on | | N/A | | | | | | |
| | | | | | • | 1/// | • | | | | | |
| _ | | - | | | | N/A | | | | | | |
| The BLM or BIA has approved the operator | | | | | Comm 5 Tron | | | | | | | |
| 9. Underground Injection Control ("UIC" | | | _ | _ | | | | C1 | | | | |
| Inject, for the enhanced/secondary recovery ur | nit/pro | oject for th | ie wa | iter disposal we | il(s) listed o | n: Sec | cond Oper | Cng | | | | |
| DATA ENTRY: | | | | | | | | | | | | |
| 1. Changes entered in the Oil and Gas Database | | | _ | 6/29/2012 | _ | | | | | | | |
| 2. Changes have been entered on the Monthly O | perat | or Chang | e Sp | | | 6/29/2012 | • | | | | | |
| 3. Bond information entered in RBDMS on: | | | | 6/29/2012 | _ | | | | | | | |
| 4. Fee/State wells attached to bond in RBDMS or | | | | 6/29/2012 | _ | | | | | | | |
| 5. Injection Projects to new operator in RBDMS | | DD 0.1 | | 6/29/2012 | - | | | | | | | |
| 6. Receipt of Acceptance of Drilling Procedures i | or Al | PD/New of | n: | | N/A | _ | | | | | | |
| BOND VERIFICATION: | | | | | | | | | | | | |
| 1. Federal well(s) covered by Bond Number: | | | | 103601420 | | | | | | | | |
| 2. Indian well(s) covered by Bond Number: | _ | | | 103601473 | | 4007770707 | | | | | | |
| 3a. (R649-3-1) The NEW operator of any state/fe | e wel | ll(s) listed | cov | ered by Bond N | umber | 400JU0705 | - | | | | | |
| 3b. The FORMER operator has requested a releas | se of l | iability fro | om tl | neir bond on: | N/A | | | | | | | |
| LEASE INTEREST OWNER NOTIFIC 4. (R649-2-10) The NEW operator of the fee wells | s has l | been conta | | | | | | | | | | |
| of their responsibility to notify all interest owne | rs of | this chang | e on | • | 6/29/2012 | | | | | | | |
| COMMENTS: | | | | | | | | | | | | |
| Disposal and Injections wells will be moved wh | ien U | IC 5 is re | ceiv | ed. | | | | | | | | |

STATE OF UTAH PARTMENT OF NATURAL RESOURCES

| | DIVISION OF OIL | | | | 5. LEASE DESIGNATION AND SERIAL | NUMBER: |
|---|--|---|---|--------------------------------------|--|-----------|
| CUNDDY | / NOTICES AN | ID BEDODI | TO ON WEL | 1.6 | Multiple Leases 6. IF INDIAN, ALLOTTEE OR TRIBE NA | ME: |
| SUNDKI | Y NOTICES AN | ND REPUR | 12 ON WEL | LS | 7 LINUT CA ACREEMENT NAME. | |
| Do not use this form for proposals to drill r drill horizontal k | new wells, significantly deepe aterals. Use APPLICATION | en existing wells below of FOR PERMIT TO DRILL | current bottom-hole dept L form for such proposa | th, reenter plugged wells, or to is. | 7. UNIT or CA AGREEMENT NAME: | |
| 1. TYPE OF WELL OIL WELL | ☑ GAS WELI | OTHER | | | WELL NAME and NUMBER: See Attached | |
| 2. NAME OF OPERATOR: | | | · · · · | | 9. API NUMBER: | <u> </u> |
| El Paso E&P Company, L | P. | A | Attn: Maria Go | ···- | | |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana | y Houston | STATE TX Z | _{1P} 77002 | PHONE NUMBER: (713) 997-5038 | 10. FIELD AND POOL, OR WILDCAT: See Attached | |
| 4. LOCATION OF WELL | | 0.771 <u>g</u> | | | | |
| FOOTAGES AT SURFACE: See A | Attached | | | | COUNTY: | |
| QTR/QTR, SECTION, TOWNSHIP, RAN | NGE, MERIDIAN: | | | | STATE: UTAH | |
| 11. CHECK APP | ROPRIATE BOXI | ES TO INDICA | TE NATURE | OF NOTICE, REPO | ORT, OR OTHER DATA | |
| TYPE OF SUBMISSION | | | T | YPE OF ACTION | | |
| NOTICE OF INTENT | ACIDIZE | | DEEPEN | | REPERFORATE CURRENT FO | PRMATION |
| (Submit in Duplicate) | ALTER CASING | | FRACTURE | TREAT | SIDETRACK TO REPAIR WEL | L |
| Approximate date work will start: | CASING REPAIR | | MEW CONS | | TEMPORARILY ABANDON | |
| | CHANGE TO PRE | VIOUS PLANS | ☐ OPERATOR | | TUBING REPAIR | |
| SUBSEQUENT REPORT | CHANGE TUBING CHANGE WELL N | A B4E | PLUG AND | | | |
| (Submit Original Form Only) | CHANGE WELL ST | | _ | ON (START/RESUME) | WATER SHUT-OFF | |
| Date of work completion: | | DUCING FORMATIONS | = | ION OF WELL SITE | OTHER: Change of | |
| | CONVERT WELL | | = | TE - DIFFERENT FORMATION | Nomo/Onoro | tor |
| 12. DESCRIBE PROPOSED OR CO | OMPLETED OPERATIO | NS. Clearly show al | l pertinent details inc | cluding dates, depths, volum | mes, etc. | |
| | | | | | es to EP Energy E&P Comp | anv. L.P. |
| | | | | | ed the new operator of the | |
| ED E | D : | المطافعة المسامعة | | 4141a.a.a. a. 44b.a. 1a.a.a.a. | (a) fan tha an antiona aond. | ام مغم |
| | | | | | (s) for the operations condund No. 400JU0705, Bureau | |
| Management Nationwide | | | | | | |
| | | | | | | |
| 4 . | _ | | | 1 | | |
| March 10 | 2 | | | Luci | 2/10 | |
| Frank W. Faller | | | | Frank W. Falleri | | |
| Vice President | | | | Sr. Vice President | | |
| El Paso E&P Company, L | P. | | | EP Energy E&P C | company, L.P. | |
| | | | | | | |
| | | | | | | |
| NAME (PLEASE PRINT) Maria S. (| Gomez | | TITU | Frincipal Regula | atory Analyst | |
| SIGNATURE MAYOR | H. Borrer | S | DAYI | 6/22/2012 | | |
| This space for State use only) | | | | RE | CEIVED | |
| APPROVED _ | , /29/201 | 2 | | | . 2 5 2012 | |
| 7 | حر غنب عدلا | | | JUN | 2 5 2012 | |

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

Rachel Medim

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

| | | | | | | | Well | Well | |
|-------------------------|-----|-------------|-------------|-------------------|---------------|-----------------|-------------|--------|--------------|
| Well Name | Sec | TWP | RNG | API Number | Entity | Lease Type | Type | Status | Conf |
| DWR 3-17C6 | 17 | 0308 | 060W | 4301350070 | | 14204621118 | OW | APD | С |
| LAKEWOOD ESTATES 3-33C6 | 33 | 0308 | 060W | 4301350127 | | 1420H621328 | OW | APD | С |
| YOUNG 3-15A3 | 15 | I | | 4301350122 | | FEE | OW | APD | С |
| WHITING 4-1A2 | 01 | | | 4301350424 | | Fee | OW | APD | С |
| EL PASO 4-34A4 | 34 | | | 4301350720 | | Fee | ow | APD | C |
| YOUNG 2-2B1 | 02 | | | 4304751180 | | FEE | ow | APD | C |
| LAKE FORK RANCH 3-10B4 | 10 | | | 4301350712 | 19221 | | OW | DRL | C |
| LAKE FORK RANCH 4-26B4 | 26 | | | 4301350712 | | | OW | DRL | C |
| | | | | | | | OW | DRL | C |
| LAKE FORK RANCH 4-24B4 | 24 | 1 | | 4301350717 | | | | | |
| Cook 4-14B3 | 14 | | | 4301351162 | | | OW | DRL | C |
| Peterson 4-22C6 | 22 | | | 4301351163 | | | OW | DRL | С |
| Lake Fork Ranch 4-14B4 | 14 | | | 4301351240 | | | OW | DRL | С |
| Melesco 4-20C6 | 20 | | | 4301351241 | | | OW | DRL | С |
| Peck 3-13B5 | 13 | | | 4301351364 | | | OW | DRL | С |
| Jensen 2-9C4 | 09 | | | 4301351375 | | | OW | DRL | С |
| El Paso 3-5C4 | 05 | 030S | 040W | 4301351376 | 18563 | Fee | OW | DRL | С |
| ULT 6-31 | 31 | 030S | 020E | 4304740033 | | FEE | OW | LA | |
| OBERHANSLY 2-2A1 | 02 | 0108 | 010W | 4304740164 | | FEE | OW | LA | |
| DWR 3-15C6 | 15 | | | 4301351433 | | 14-20-H62-4724 | | NEW | С |
| Lake Fork Ranch 5-23B4 | 23 | | | 4301350739 | | Fee | ow | NEW | |
| Duchesne Land 4-10C5 | 10 | | | 4301351262 | | Fee | OW | NEW | С |
| Cabinland 4-9B3 | 09 | | | 4301351374 | | Fee | OW | NEW | C |
| | | | <u> </u> | 4301351374 | | Fee | OW | NEW | C |
| Layton 4-2B3 | 02 | | | | | | | | C |
| Golinski 4-24B5 | 24 | | | 4301351404 | | Fee | OW | NEW | |
| Alba 1-21C4 | 21 | | | 4301351460 | | Fee | OW | NEW | С |
| Allison 4-19C5 | 19 | | | 4301351466 | | Fee | OW | NEW | С |
| Seeley 4-3B3 | 03 | | | 4301351486 | | Fee | OW | NEW | С |
| Allen 4-25B5 | 25 | | | 4301351487 | | Fee | OW | NEW | С |
| Hewett 2-6C4 | 06 | 030S | 040W | 4301351489 | | Fee | OW | NEW | С |
| Young 2-7C4 | 07 | 0308 | 040W | 4301351500 | | Fee | OW | NEW | С |
| Brighton 3-31A1E | 31 | 0108 | 010E | 4304752471 | | Fee | OW | NEW | С |
| Hamaker 3-25A1 | 25 | | | 4304752491 | | Fee | OW | NEW | С |
| Bolton 3-29A1E | 29 | | | 4304752871 | | Fee | OW | NEW | С |
| HORROCKS 5-20A1 | 20 | | | 4301334280 | 17378 | | OW | OPS | C |
| DWR 3-19C6 | 19 | | | | | 14-20-462-1120 | | P | |
| | | | | | | 14-20-462-1131 | | P | |
| DWR 3-22C6 | | | | | | 14-20-462-1323 | | P | |
| DWR 3-28C6 | | | | | | | | P | + |
| UTE 1-7A2 | | | | | | 14-20-462-811 | OW | | |
| UTE 2-17C6 | 17 | I | | | | 14-20-H62-1118 | | P | |
| WLR TRIBAL 2-19C6 | 19 | L | | 1 | | 14-20-H62-1120 | | Р | |
| CEDAR RIM 10-A-15C6 | 15 | | | | | 14-20-H62-1128 | | Р | |
| CEDAR RIM 12A | 28 | 0308 | 060W | 4301331173 | 10672 | 14-20-H62-1323 | OW | Р | |
| UTE-FEE 2-33C6 | 33 | 030S | 060W | 4301331123 | 10365 | 14-20-H62-1328 | OW | Р | |
| TAYLOR 3-34C6 | 34 | 0308 | 060W | 4301350200 | 17572 | 1420H621329 | OW | P | |
| BAKER UTE 2-34C6 | 34 | | | | | 14-20-H62-1329 | OW | Р | |
| UTE 3-35Z2 K | | | | | | 14-20-H62-1614 | | Р | 1 |
| UTE 1-32Z2 | 32 | | | | | 14-20-H62-1702 | | Р | |
| UTE TRIBAL 1-33Z2 | 33 | | | 4301330334 | | 14-20-H62-1703 | | P | + |
| | | | | | | 14-20-H62-1703 | | P | |
| UTE 2-33Z2 | | | | | | | | P | |
| UTE TRIBAL 2-34Z2 | 34 | 4 | | <u> </u> | | 14-20-H62-1704 | | | + |
| LAKE FORK RANCH 3-13B4 | 13 | | | | | 14-20-H62-1743 | | P | |
| UTE 1-28B4 | 28 | | | 4301330242 | | 14-20-H62-1745 | | P | <u> </u> |
| UTE 1-34A4 | 34 | · | | 4301330076 | | 14-20-H62-1774 | | Р | |
| | 26 | 0108 | 04010 | 4301330069 | 1580 | 14-20-H62-1793 | OW | Р | |
| UTE 1-36A4 | 36 | 0103 | OTOVV | 730 1330003 | 1000 | 11 LO 1102 1700 | <u> </u> | | |
| UTE 1-36A4 UTE 1-1B4 | 01 | | | 4301330129 | | 14-20-H62-1798 | | P | |

| LITE 4 OFAO | 25 | 0400 | 02014 | 4204220270 | 1000 | 44 00 HG2 4902 | OVA | Р | |
|---------------------------------|----------|---------------|-------------|------------|-------|----------------------------------|--------------|---------------|--------------|
| UTE 1-25A3 UTE 2-25A3 | 25 25 | | | 4301330370 | | 14-20-H62-1802 14-20-H62-1802 | <u> </u> | P | |
| UTE 1-26A3 | 26 | | | 4301331343 | | 14-20-H62-1803 | } | P | |
| UTE 2-26A3 | 26 | | | | | 14-20-H62-1803 | | P | |
| UTE TRIBAL 4-35A3 | | 1 | 1 | | | 1420H621804 | OW | Р | С |
| | 35 | | | L | i | 14-20-H62-1804 | | P | <u></u> |
| UTE 2-35A3 | 35 | | | | | | | | |
| UTE 3-35A3 | 35 | | | | | 14-20-H62-1804 | | Р | ļ |
| UTE 1-6B2 | 06 | | | 4301330349 | | 14-20-H62-1807 | | P | |
| UTE 2-6B2 | 06 | | | | | 14-20-H62-1807 | | P | |
| UTE TRIBAL 3-6B2 | 06 | | | | | 14-20-H62-1807 | | P | С |
| POWELL 4-19A1 | 19 | | | 4301330071 | | 14-20-H62-1847 | | Р | ļ |
| COLTHARP 1-27Z1 | 27 | | | 4301330151 | | 14-20-H62-1933 | | P | ļ |
| UTE 1-8A1E | 08 | | L | 4304730173 | | 14-20-H62-2147 | | Р | |
| UTE TRIBE 1-31 | 31 | | | 4301330278 | | 14-20-H62-2421 | | Ρ | ļ |
| UTE 1-28B6X | 28 | | | | | 14-20-H62-2492 | | Р | |
| RINKER 2-21B5 | 21 | | | | | 14-20-H62-2508 | | Р | |
| MURDOCK 2-34B5 | 34 | | | | | 14-20-H62-2511 | | Р | |
| UTE 1-35B6 | 35 | | | 4301330507 | | 14-20-H62-2531 | | Р | |
| UTE TRIBAL 1-17A1E | 17 | 1 - | | 4304730829 | 1 | 14-20-H62-2658 | | Р | |
| UTE 2-17A1E | 17 | 0108 | 010E | 4304737831 | 16709 | 14-20-H62-2658 | OW | Р | |
| UTE TRIBAL 1-27A1E | 27 | 0108 | 010E | 4304730421 | 800 | 14-20-H62-2662 | OW | Р | |
| UTE TRIBAL 1-35A1E | 35 | 0108 | 010E | 4304730286 | 795 | 14-20-H62-2665 | OW | P | |
| UTE TRIBAL 1-15A1E | 15 | 0108 | 010E | 4304730820 | 850 | 14-20-H62-2717 | OW | Р | ļ · |
| UTE TRIBAL P-3B1E | 03 | | | 4304730190 | | 14-20-H62-2873 | | Р | |
| UTE TRIBAL 1-22A1E | 22 | | | 4304730429 | | 14-20-H62-3103 | | Р | ļ |
| B H UTE 1-35C6 | 35 | | | | | 14-20-H62-3436 | | Р | <u> </u> |
| BH UTE 2-35C6 | 35 | | | | | 14-20-H62-3436 | | Р | <u></u> |
| MCFARLANE 1-4D6 | 04 | | | | | 14-20-H62-3452 | | Р | † |
| UTE TRIBAL 1-11D6 | 11 | | | 4301330482 | | 14-20-H62-3454 | | P | |
| CARSON 2-36A1 | 36 | | | 4304731407 | 4 | 14-20-H62-3806 | | P | |
| UTE 2-14C6 | 14 | | | 4301330775 | | 14-20-H62-3809 | + | P | |
| DWR 3-14C6 | 14 | | | | 1 | 14-20-H62-3809 | | P | |
| THE PERFECT "10" 1-10A1 | 10 | | L | 4301330935 | | 14-20-H62-3855 | | P | |
| BADGER-SAM H U MONGUS 1-15A1 | 15 | | | 4301330949 | | 14-20-H62-3860 | | P | |
| MAXIMILLIAN-UTE 14-1 | 14 | | | 4301330726 | | 14-20-H62-3868 | | <u>.</u> Р | - |
| FRED BASSETT 1-22A1 | 22 | | | 4301330781 | | 14-20-H62-3880 | 1 | P | t |
| UTE TRIBAL 1-30Z1 | 30 | | | | | 14-20-H62-3910 | | P | |
| UTE LB 1-13A3 | 13 | | | 4301330894 | | 14-20-H62-3980 | | P | |
| | 22 | | | | | 14-20-H62-4614 | | P | ļ |
| UTE 2-22B6 UINTA OURAY 1-1A3 | | | | | | 14-20-H62-4664 | | P | |
| | 01 | | | | | 14-20-H62-4752 | | P | |
| UTE 1-6D6 | 06 | | | | | 1420H624801 | | P | |
| UTE 2-11D6 | 11 | | | ļ | | | OW | | |
| UTE 1-15D6 | 15 | | | | | 14-20-H62-4824 | | P | <u> </u> |
| UTE 2-15D6 | 15 | | | | | 14-20-H62-4824 | | P | |
| HILL 3-24C6 | 24 | | | | | 1420H624866 | OW | P | С |
| BARCLAY UTE 2-24C6R | 24 | | | L | | 14-20-H62-4866 | | P | |
| BROTHERSON 1-2B4 | 02 | | | 4301330062 | | FEE | OW | P | ļ |
| BOREN 1-24A2 | 24 | | | 4301330084 | | FEE | OW | Р | |
| FARNSWORTH 1-13B5 | 13 | | | 4301330092 | | FEE | OW | Р | |
| BROADHEAD 1-21B6 | 21 | | | 4301330100 | | FEE | OW | P | |
| ASAY E J 1-20A1 | 20 | - | | 4301330102 | | FEE | OW | Р | ļ |
| HANSON TRUST 1-5B3 | 05 | | | 4301330109 | | FEE | OW | Р | |
| ELLSWORTH 1-8B4 | 08 | | | 4301330112 | | FEE | OW | Р | L |
| ELLSWORTH 1-9B4 | 09 | | | 4301330118 | | FEE | OW | Р | |
| ELLSWORTH 1-17B4 | 17 | | | 4301330126 | | FEE | OW | Р | |
| CHANDLER 1-5B4 | 05 | 0208 | 040W | 4301330140 | 1685 | FEE | OW | Р | |
| HANSON 1-32A3 | 32 | 0108 | 030W | 4301330141 | 1640 | FEE | OW | Р | |
| JESSEN 1-17A4 | 17 | | | 4301330173 | | FEE | OW | P | T |

| LIENIKINO 4 4DO | 04 | 0200 | 020\4/ | 4204220475 | 4700 | ree | OW | Р |
|----------------------------|----|----------|--------|------------|----------|------------|----|---|
| JENKINS 1-1B3 | 01 | <u> </u> | | 4301330175 | I | FEE FEE | OW | P |
| GOODRICH 1-2B3 | 02 | | | 4301330182 | <u> </u> | FEE | OW | P |
| ELLSWORTH 1-19B4 | 19 | | | 4301330183 | | | OW | P |
| DOYLE 1-10B3 | 10 | | | 4301330187 | | FEE | | P |
| JOS. SMITH 1-17C5 | 17 | | | 4301330188 | | FEE | OW | |
| RUDY 1-11B3 | 11 | | | 4301330204 | | FEE | OW | P |
| CROOK 1-6B4 | 06 | | | 4301330213 | | FEE | OW | P |
| HUNT 1-21B4 | 21 | | | 4301330214 | | FEE | OW | P |
| LAWRENCE 1-30B4 | 30 | | | 4301330220 | 1 | FEE | OW | P |
| YOUNG 1-29B4 | 29 | | | 4301330246 | | FEE | OW | P |
| GRIFFITHS 1-33B4 | 33 | 1 | | 4301330288 | | FEE | OW | P |
| POTTER 1-2B5 | 02 | h | | 4301330293 | | FEE | OW | P |
| BROTHERSON 1-26B4 | 26 | | | 4301330336 | | FEE | OW | P |
| SADIE BLANK 1-33Z1 | 33 | | | 4301330355 | | FEE | OW | Р |
| POTTER 1-24B5 | 24 | I | | 4301330356 | | FEE | OW | P |
| WHITEHEAD 1-22A3 | 22 | | | 4301330357 | | FEE | OW | Р |
| CHASEL MILLER 2-1A2 | 01 | 1 | L | 4301330360 | | FEE | OW | Р |
| ELDER 1-13B2 | 13 | | | 4301330366 | <u> </u> | FEE | OW | P |
| BROTHERSON 2-10B4 | 10 | | | 4301330443 | | FEE | OW | Р |
| FARNSWORTH 2-7B4 | 07 | t | | 4301330470 | | FEE | OW | Р |
| TEW 1-15A3 | 15 | | | 4301330529 | | FEE | OW | Р |
| UTE FEE 2-20C5 | 20 | | | 4301330550 | L | FEE | OW | P |
| HOUSTON 1-34Z1 | 34 | | | 4301330566 | | FEE | OW | Р |
| GALLOWAY 1-18B1 | 18 | | | 4301330575 | | FEE | OW | Р |
| SMITH 1-31B5 | 31 | 1 | | 4301330577 | | FEE | OW | P |
| LEBEAU 1-34A1 | 34 | | | 4301330590 | | FEE | OW | Р |
| LINMAR 1-19B2 | 19 | 020S | 020W | 4301330600 | 9350 | FEE | OW | Р |
| WISSE 1-28Z1 | 28 | 010N | 010W | 4301330609 | 905 | FEE | OW | Р |
| POWELL 1-21B1 | 21 | 0208 | 010W | 4301330621 | 910 | FEE | OW | Р |
| HANSEN 1-24B3 | 24 | 0208 | 030W | 4301330629 | 2390 | FEE | OW | P |
| OMAN 2-4B4 | 04 | 0208 | 040W | 4301330645 | 9125 | FEE | OW | P |
| DYE 1-25Z2 | 25 | | | 4301330659 | | FEE | OW | Р |
| H MARTIN 1-21Z1 | 21 | 010N | 010W | 4301330707 | 925 | FEE | OW | Р |
| JENSEN 1-29Z1 | 29 | 010N | 010W | 4301330725 | 9110 | FEE | OW | Р |
| CHASEL 2-17A1 V | 17 | 010S | 010W | 4301330732 | 9112 | FEE | OW | Р |
| BIRCHELL 1-27A1 | 27 | | | 4301330758 | | FEE | OW | Р |
| CHRISTENSEN 2-8B3 | 08 | 0208 | 030W | 4301330780 | 9355 | FEE | OW | Р |
| LAMICQ 2-5B2 | 05 | 0208 | 020W | 4301330784 | 2302 | FEE | OW | Р |
| BROTHERSON 2-14B4 | 14 | 0208 | 040W | 4301330815 | 10450 | FEE | OW | Р |
| MURRAY 3-2A2 | 02 | 010S | 020W | 4301330816 | 9620 | FEE | OW | Р |
| HORROCKS 2-20A1 V | 20 | 0108 | 010W | 4301330833 | 8301 | FEE | OW | Р |
| BROTHERSON 2-2B4 | 02 | 0208 | 040W | 4301330855 | 8420 | FEE | OW | P |
| ELLSWORTH 2-8B4 | 08 | L | L | 4301330898 | | FEE | OW | Р |
| OMAN 2-32A4 | 32 | 010S | 040W | 4301330904 | 10045 | FEE | OW | Р |
| BELCHER 2-33B4 | 33 | 0208 | 040W | 4301330907 | 9865 | FEE | OW | Р |
| BROTHERSON 2-35B5 | 35 | 0208 | 050W | 4301330908 | 9404 | FEE | OW | P |
| HORROCKS 2-4A1 T | 04 | 010S | 010W | 4301330954 | 9855 | FEE | OW | Р |
| JENSEN 2-29A5 | 29 | 010S | 050W | 4301330974 | 10040 | FEE | OW | P |
| UTE 2-34A4 | 34 | 010S | 040W | 4301330978 | 10070 | FEE | OW | P |
| CHANDLER 2-5B4 | 05 | | | 4301331000 | | | OW | P |
| BABCOCK 2-12B4 | 12 | 0208 | 040W | 4301331005 | 10215 | FEE | OW | Р |
| BADGER MR BOOM BOOM 2-29A1 | 29 | 0108 | 010W | 4301331013 | 9463 | FEE | OW | Р |
| BLEAZARD 2-18B4 | 18 | 020\$ | 040W | 4301331025 | 1566 | FEE | OW | P |
| BROADHEAD 2-32B5 | 32 | 020S | 050W | 4301331036 | 10216 | FEE | OW | P |
| ELLSWORTH 2-16B4 | 16 | | | 4301331046 | | | OW | P |
| RUST 3-4B3 | 04 | | | 4301331070 | | FEE | OW | Р |
| HANSON TRUST 2-32A3 | 32 | 0108 | 030W | 4301331072 | 1641 | FEE | OW | Р |
| BROTHERSON 2-11B4 | 11 | 020\$ | 040W | 4301331078 | 1541 | FEE | OW | P |
| | | | | | | | | |

| HANSON TRUST 2-5B3 | 05 | 0208 | 020/4/ | 4301331079 | 1626 | FEE | OW | P | — |
|------------------------|----------|----------|-------------|------------|-------------|-----|----|----------|--|
| | 15 | | | 4301331079 | 1 | FEE | OW | P | |
| BROTHERSON 2-15B4 | | | | | | | | L L | 4 |
| MONSEN 2-27A3 | 27 | | | 4301331104 | | FEE | OW | P | |
| ELLSWORTH 2-19B4 | 19 | | | 4301331105 | | FEE | OW | P | |
| HUNT 2-21B4 | 21 | | | 4301331114 | | FEE | OW | P | |
| JENKINS 2-1B3 | 01 | | | 4301331117 | | FEE | OW | P | |
| POTTER 2-24B5 | 24 | | | 4301331118 | | FEE | OW | P | |
| POWELL 2-13A2 K | 13 | | | 4301331120 | | FEE | OW | Р | |
| JENKINS 2-12B3 | 12 | | | 4301331121 | | | OW | Р | |
| MURDOCK 2-26B5 | 26 | | | 4301331124 | | FEE | OW | Р | |
| BIRCH 3-27B5 | 27 | .1 | 1 | 4301331126 | | FEE | OW | P | |
| ROBB 2-29B5 | 29 | | | 4301331130 | | | OW | Р | |
| LAKE FORK 2-13B4 | 13 | | | 4301331134 | | | OW | P | |
| DUNCAN 3-1A2 K | 01 | 010S | 020W | 4301331135 | 10484 | FEE | OW | Р | |
| HANSON 2-9B3 | 09 | | | 4301331136 | | | OW | P | |
| ELLSWORTH 2-9B4 | 09 | 0208 | 040W | 4301331138 | 10460 | FEE | OW | P | |
| UTE 2-31A2 | 31 | 0108 | 020W | 4301331139 | 10458 | FEE | OW | Р | |
| POWELL 2-19A1 K | 19 | 0108 | 010W | 4301331149 | 8303 | FEE | OW | Р | |
| CEDAR RIM 8-A | 22 | 0308 | 060W | 4301331171 | 10666 | FEE | OW | Р | |
| POTTER 2-6B4 | 06 | 0208 | 040W | 4301331249 | 11038 | FEE | OW | Р | |
| MILES 2-1B5 | 01 | | | 4301331257 | | | OW | Р | |
| MILES 2-3B3 | 03 | | | 4301331261 | | | OW | P | |
| MONSEN 2-22A3 | 22 | | | 4301331265 | | | OW | Р | |
| WRIGHT 2-13B5 | 13 | | | 4301331267 | | | OW | P | |
| TODD 2-21A3 | 21 | | | 4301331296 | | | OW | P | |
| WEIKART 2-29B4 | 29 | | | 4301331298 | | | OW | P | |
| YOUNG 2-15A3 | 15 | | | 4301331301 | | | OW | P | |
| CHRISTENSEN 2-29A4 | 29 | | | 4301331303 | | | OW | P | |
| BLEAZARD 2-28B4 | 28 | | | 4301331304 | + | | OW | P | |
| REARY 2-17A3 | 17 | | <u> </u> | 4301331304 | | | OW | P | |
| | 11 | | | 4301331316 | | | OW | P | |
| LAZY K 2-11B3 | + | | | 4301331354 | L | | OW | P | |
| LAZY K 2-14B3 | 14 | | | | | | OW | P | |
| MATTHEWS 2-13B2 | 13 | | | 4301331357 | | | OW | P | |
| LAKE FORK 3-15B4 | 15 | | | 4301331358 | | | OW | P | |
| STEVENSON 3-29A3 | 29 | | | 4301331376 | | | | P | |
| MEEKS 3-8B3 | 08 | | | 4301331377 | | | OW | • | |
| ELLSWORTH 3-20B4 | 20 | | | 4301331389 | | | OW | P | |
| DUNCAN 5-13A2 | 13 | | | 4301331516 | | | OW | Р | |
| OWL 3-17C5 | 17 | | | 4301332112 | | | OW | P | |
| BROTHERSON 2-24 B4 | 24 | | | 4301332695 | | | OW | P | |
| BODRERO 2-15B3 | 15 | | | 4301332755 | | | OW | P | |
| BROTHERSON 2-25B4 | 25 | | | 4301332791 | | | OW | Р | |
| CABINLAND 2-16B3 | 16 | | | 4301332914 | | | OW | Р | ··· |
| KATHERINE 3-29B4 | 29 | | | 4301332923 | + | | OW | Р | |
| SHRINERS 2-10C5 | 10 | | | 4301333008 | | | OW | Р | |
| BROTHERSON 2-26B4 | 26 | | | 4301333139 | | | OW | Р | |
| MORTENSEN 4-32A2 | 32 | 0108 | 020W | 4301333211 | 15720 | FEE | OW | Р | |
| FERRARINI 3-27B4 | 27 | 0205 | 040W | 4301333265 | 15883 | FEE | OW | Р | |
| RHOADES 2-25B5 | 25 | 0208 | 050W | 4301333467 | 16046 | FEE | OW | P | |
| CASE 2-31B4 | 31 | 020S | 040W | 4301333548 | 16225 | FEE | OW | P | |
| ANDERSON-ROWLEY 2-24B3 | 24 | | | 4301333616 | | | OW | Р | |
| SPROUSE BOWDEN 2-18B1 | 18 | | | 4301333808 | | | OW | Р | |
| BROTHERSON 3-11B4 | 11 | | | 4301333904 | | | OW | Р | |
| KOFFORD 2-36B5 | 36 | | | 4301333988 | | | OW | P | |
| ALLEN 3-7B4 | 07 | | | 4301334027 | | | OW | P | No. 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| BOURNAKIS 3-18B4 | 18 | <u> </u> | <u> </u> | 4301334091 | + | | OW | Р | |
| MILES 3-12B5 | 12 | | | 4301334110 | | | OW | P | |
| OWL and HAWK 2-31B5 | 31 | · | | 4301334123 | <u> </u> | | OW | Р | |
| | <u> </u> | 2200 | COUTT | 1001007120 | 1 | · | | <u> </u> | |

| OWL and HAWK 4-17C5 | 17 | 0206 | OFO\A/ | 4301334193 | 17207 | CEC | OW | Р | |
|-------------------------------|----------------|---------------|--------|------------|----------|--|----|---|----------------|
| | 17 32 | | | 4301334193 | <u> </u> | | OW | P | - |
| DWR 3-32B5 | | | t | L | | | | P | |
| LAKE FORK RANCH 3-22B4 | 22 | | + | 4301334261 | | | OW | | ļ |
| HANSON 3-9B3 | 09 | | | 4301350065 | | | OW | Р | ļ |
| DYE 2-28A1 | 28 | | | 4301350066 | | | OW | Р | ļ |
| MEEKS 3-32A4 | 32 | | | 4301350069 | | | OW | Р | <u></u> |
| HANSON 4-8B3 | 08 | | | 4301350088 | | | OW | P | С |
| LAKE FORK RANCH 3-14B4 | 14 | | | 4301350097 | | | OW | Р | |
| ALLEN 3-9B4 | 09 | | | 4301350123 | | | OW | Р | <u></u> |
| HORROCKS 4-20A1 | 20 | 0108 | 010W | 4301350155 | 17916 | FEE | OW | P | |
| HURLEY 2-33A1 | 33 | 0108 | 010W | 4301350166 | 17573 | FEE | OW | Р | |
| HUTCHINS/CHIODO 3-20C5 | 20 | 0308 | 050W | 4301350190 | 17541 | FEE | OW | Р | |
| ALLEN 3-8B4 | 08 | 0208 | 040W | 4301350192 | 17622 | FEE | OW | P | |
| OWL and HAWK 3-10C5 | 10 | 0308 | 050W | 4301350193 | 17532 | FEE | OW | P | 1 |
| OWL and HAWK 3-19C5 | 19 | 030S | 050W | 4301350201 | 17508 | FEE | OW | Р | |
| EL PASO 4-29B5 | 29 | | + | 4301350208 | | | ow | P | C |
| DONIHUE 3-20C6 | 20 | | | 4301350270 | | | OW | Р | 1= |
| HANSON 3-5B3 | 05 | | | 4301350275 | | | OW | Р | С |
| SPRATT 3-26B5 | 26 | | | 4301350302 | | | OW | P | 1 |
| REBEL 3-35B5 | 35 | | | 4301350388 | | | ow | P | С |
| FREEMAN 4-16B4 | 16 | | | 4301350388 | | | OW | P | C |
| | | | | | L | | OW | P | C |
| WILSON 3-36B5 | 36 | | | 4301350439 | | | | | |
| EL PASO 3-21B4 | 21 | | | 4301350474 | 1 | | OW | P | С |
| IORG 4-12B3 | 12 | | | 4301350487 | | | OW | P | С |
| CONOVER 3-3B3 | 03 | | | 4301350526 | | | OW | Р | С |
| ROWLEY 3-16B4 | 16 | | | 4301350569 | | | OW | P | С |
| POTTS 3-14B3 | 14 | | | 4301350570 | | | OW | Р | С |
| POTTER 4-27B5 | 27 | | | 4301350571 | | | OW | P | С |
| EL PASO 4-21B4 | 21 | | | 4301350572 | · | | OW | Р | С |
| LAKE FORK RANCH 3-26B4 | 26 | 0208 | 040W | 4301350707 | 18270 | Fee | OW | Р | С |
| LAKE FORK RANCH 3-25B4 | 25 | 0208 | 040W | 4301350711 | 18220 | Fee | OW | Р | С |
| LAKE FORK RANCH 4-23B4 | 23 | 0208 | 040W | 4301350713 | 18271 | Fee | OW | P | С |
| LAKE FORK RANCH 4-15B4 | 15 | 0208 | 040W | 4301350715 | 18314 | Fee | OW | Р | С |
| LAKE FORK RANCH 3-24B4 | 24 | 0208 | 040W | 4301350716 | 18269 | Fee | OW | P | С |
| GOLINSKI 1-8C4 | 08 | _1 | | 4301350986 | | | OW | Р | С |
| J ROBERTSON 1-1B1 | 01 | | | 4304730174 | | FEE | OW | P | + |
| TIMOTHY 1-8B1E | 08 | | | 4304730215 | | FEE | OW | Р | + |
| MAGDALENE PAPADOPULOS 1-34A1E | 34 | | | 4304730241 | | FEE | OW | P | |
| NELSON 1-31A1E | 31 | | | 4304730671 | | FEE | OW | P | + |
| ROSEMARY LLOYD 1-24A1E | 24 | | | 4304730707 | | FEE | ow | P | + |
| H D LANDY 1-30A1E | 30 | | | 4304730790 | | FEE | ow | P | |
| | | | | | | FEE | OW | P | + |
| WALKER 1-14A1E | 14 | | | 4304730805 | | | | | ļ |
| BOLTON 2-29A1E | 29 | | | 4304731112 | | FEE | OW | Р | |
| PRESCOTT 1-35Z1 | 35 | | | 4304731173 | | FEE | OW | P | + |
| BISEL GURR 11-1 | 11 | | | 4304731213 | 1 | FEE | OW | Р | |
| UTE TRIBAL 2-22A1E | 22 | | | 4304731265 | | FEE | OW | Р | |
| L. BOLTON 1-12A1 | 12 | | | 4304731295 | | FEE | OW | Р | |
| FOWLES 1-26A1 | 26 | 010S | 010W | 4304731296 | | FEE | OW | Р | 1 |
| BRADLEY 23-1 | 23 | 0108 | 010W | 4304731297 | 8435 | FEE | OW | Р | |
| BASTIAN 1-2A1 | 02 | 010S | 010W | 4304731373 | 736 | FEE | OW | P | |
| D R LONG 2-19A1E | 19 | | | 4304731470 | | FEE | OW | Р | 1 |
| D MOON 1-23Z1 | 23 | | | 4304731479 | | | OW | P | |
| O MOON 2-26Z1 | 26 | | | 4304731480 | | | OW | P | |
| LILA D 2-25A1 | 25 | | | 4304731797 | | | OW | P | + |
| LANDY 2-30A1E | 30 | | | 4304731797 | | | ow | P | + |
| WINN P2-3B1E | 03 | | | 4304732321 | | | ow | P | + |
| | - | | | 4304732321 | | The second secon | OW | P | + |
| BISEL-GURR 2-11A1 | 11 | · | | | + | | + | | ļ |
| FLYING J FEE 2-12A1 | 12 | <u> </u> 0108 | UTUVV | 4304739467 | 10000 | ree | OW | Р | |

| HARVEST FELLOWSHIP CHURCH 2-14B1 | 14 | | <u> </u> | 4304739591 | | | OW | Р |
|----------------------------------|----|------|-------------|--------------|-------|--|-----|----|
| OBERHANSLY 3-11A1 | 11 | | | 4304739679 | | | OW | Р |
| DUNCAN 2-34A1 | 34 | | | 4304739944 | | | OW | Р |
| BISEL GURR 4-11A1 | 11 | | | 4304739961 | | | OW | P |
| KILLIAN 3-12A1 | 12 | | | 4304740226 | | | OW | P |
| WAINOCO ST 1-14B1 | 14 | | | 4304730818 | | ML-24306-A | OW | Р |
| UTAH ST UTE 1-35A1 | 35 | | | 4304730182 | | ML-25432 | OW | Р |
| STATE 1-19A4 | 19 | 010S | 040W | 4301330322 | 9118 | ML-27912 | OW | Р |
| FEDERAL 2-28E19E | 28 | 050S | 190E | 4304732849 | 12117 | UTU-0143512 | OW | Р |
| FEDERAL 1-28E19E | 28 | 050S | 190E | 4304730175 | 5680 | UTU143512 | OW | Р |
| BLANCHARD 1-3A2 | 03 | 0108 | 020W | 4301320316 | 5877 | FEE | OW | PA |
| W H BLANCHARD 2-3A2 | 03 | 010S | 020W | 4301330008 | 5775 | FEE | OW | PA |
| YACK U 1-7A1 | 07 | 010S | 010W | 4301330018 | 5795 | FEE | OW | PA |
| JAMES POWELL 3 | 13 | | + | 4301330024 | | FEE | WD | PA |
| BASTIAN 1 (3-7D) | 07 | | | 4301330026 | | FEE | OW | PA |
| LAMICQ-URRUTY 1-8A2 | 08 | | | 4301330036 | | FEE | OW | PA |
| BLEAZARD 1-18B4 | 18 | | | 4301330059 | | | OW | PA |
| OLSEN 1-27A4 | 27 | | | 4301330064 | | FEE | OW | PA |
| EVANS 1-31A4 | 31 | 1 | | 4301330067 | | FEE | OW | PA |
| HAMBLIN 1-26A2 | 26 | | 1 | 4301330083 | L | FEE | OW | PA |
| HARTMAN 1-31A3 | 31 | | | 4301330093 | | | OW | PA |
| FARNSWORTH 1-7B4 | 07 | | | 4301330097 | | FEE | ow | PA |
| POWELL 1-33A3 | 33 | | | 4301330105 | | FEE | ow | PA |
| LOTRIDGE GATES 1-3B3 | 03 | | | 4301330103 | | FEE | OW | PA |
| REMINGTON 1-34A3 | 34 | | L | 4301330117 | L | FEE | OW | PA |
| | | | | | | FEE | OW | PA |
| ANDERSON 1-28A2 | 28 | | | 4301330150 | | | | PA |
| RHOADES MOON 1-35B5 | 35 | | | 4301330155 | | FEE | OW | |
| JOHN 1-3B2 | 03 | | | 4301330160 | | FEE | OW | PA |
| SMITH 1-6C5 | 06 | | | 4301330163 | | FEE | OW | PA |
| HORROCKS FEE 1-3A1 | 03 | | | 4301330171 | | FEE | OW | PA |
| WARREN 1-32A4 | 32 | | | 4301330174 | | FEE | OW | PA |
| JENSEN FENZEL 1-20C5 | 20 | | | 4301330177 | | FEE | OW | PA |
| MYRIN RANCH 1-13B4 | 13 | | | 4301330180 | | FEE | OW | PA |
| BROTHERSON 1-27B4 | 27 | | | 4301330185 | | FEE | OW | PA |
| JENSEN 1-31A5 | 31 | | | 4301330186 | | FEE | OW | PA |
| ROBERTSON 1-29A2 | 29 | | | 4301330189 | | FEE | OW | PA |
| WINKLER 1-28A3 | 28 | | | 4301330191 | | FEE | OW | PA |
| CHENEY 1-33A2 | 33 | | | 4301330202 | | FEE | OW | PA |
| J LAMICQ STATE 1-6B1 | 06 | | | 4301330210 | | FEE | OW | PA |
| REESE ESTATE 1-10B2 | 10 | | | 4301330215 | | FEE | OW | PA |
| REEDER 1-17B5 | 17 | | | 4301330218 | | FEE | OW | PA |
| ROBERTSON UTE 1-2B2 | 02 | | | 4301330225 | | FEE | OW | PA |
| HATCH 1-5B1 | 05 | 020S | 010W | 4301330226 | 5470 | FEE | OW | PA |
| BROTHERSON 1-22B4 | 22 | 0208 | 040W | 4301330227 | 5935 | FEE | OW | PA |
| ALLRED 1-16A3 | 16 | 0108 | 030W | 4301330232 | 1780 | FEE | OW | PA |
| BIRCH 1-35A5 | 35 | 0108 | 050W | 4301330233 | 9116 | FEE | OW | PA |
| MARQUERITE UTE 1-8B2 | 08 | 0205 | 020W | 4301330235 | 9122 | FEE | OW | PA |
| BUZZI 1-11B2 | 11 | | | 4301330248 | | | OW | PA |
| SHISLER 1-3B1 | 03 | | | 4301330249 | | | OW | PA |
| TEW 1-1B5 | 01 | + | · | 4301330264 | | | OW | PA |
| EVANS UTE 1-19B3 | 19 | | | 4301330265 | | | OW | PA |
| SHELL 2-27A4 | 27 | | + | 4301330266 | | | WD | PA |
| DYE 1-29A1 | 29 | | | 4301330271 | | | OW | PA |
| VODA UTE 1-4C5 | 04 | | | 4301330283 | | | OW | PA |
| BROTHERSON 1-28A4 | 28 | | | 4301330292 | | The same of the sa | OW | PA |
| MEAGHER 1-4B2 | 04 | | | 4301330292 | | FEE | OW | PA |
| NORLING 1-9B1 | 09 | | | 4301330315 | | FEE | OW | PA |
| | 09 | | | 4301330316 | | FEE | OW | PA |
| S. BROADHEAD 1-9C5 | UB | 0303 | UJUVV | 490 (9909 10 | JJ4U | I CL | UVV | |

| THACTING A GOAG | 00 | 0400 | 000141 | 100100001 | 140000 | | 10141 | 54 |
|------------------------|-------------|------|-------------|------------|-------------|----------------|-------|-------------|
| TIMOTHY 1-09A3 | 09 | | | 4301330321 | | | OW | PA |
| BARRETT 1-34A5 | 34 | | | 4301330323 | | FEE | OW | PA |
| MEAGHER TRIBAL 1-9B2 | 09 | | | 4301330325 | | FEE | OW | PA |
| PHILLIPS UTE 1-3C5 | 03 | | | 4301330333 | | FEE | OW | PA |
| ELLSWORTH 1-20B4 | 20 | | | 4301330351 | | FEE | OW | PA |
| LAWSON 1-28A1 | 28 | | | 4301330358 | | FEE | OW | PA |
| AMES 1-23A4 | 23 | | | 4301330375 | | FEE | OW | PA |
| HORROCKS 1-6A1 | 06 | | | 4301330390 | | FEE | OW | PA |
| SHRINE HOSPITAL 1-10C5 | 10 | | | 4301330393 | | FEE | OW | PA |
| GOODRICH 1-18B2 | 18 | 020S | 020W | 4301330397 | 5485 | FEE | OW | PA |
| SWD POWELL 3 | 13 | | | 4301330478 | | FEE | WD | PA |
| BODRERO 1-15B3 | 15 | 0208 | 030W | 4301330565 | 4534 | FEE | OW | PA |
| MOON TRIBAL 1-30C4 | 30 | 0308 | 040W | 4301330576 | 2360 | FEE | OW | PA |
| DUNCAN 2-9B5 | 09 | 0208 | 050W | 4301330719 | 5440 | FEE | OW | PA |
| FISHER 1-16A4 | 16 | 0108 | 040W | 4301330737 | 2410 | FEE | OW | PA |
| URRUTY 2-34A2 | 34 | | | 4301330753 | | FEE | OW | PA |
| GOODRICH 1-24A4 | 24 | | | 4301330760 | | FEE | OW | PA |
| CARL SMITH 2-25A4 | 25 | | | 4301330776 | | FEE | OW | PA |
| ANDERSON 1-A30B1 | 30 | | | 4301330783 | | FEE | OW | PA |
| CADILLAC 3-6A1 | 06 | | | 4301330834 | | FEE | ow | PA |
| MCELPRANG 2-31A1 | 31 | | | 4301330836 | | FEE | ow | PA |
| REESE ESTATE 2-10B2 | 10 | | | 4301330837 | | FEE | OW | PA |
| CLARK 2-9A3 | 09 | | | 4301330876 | | FEE | OW | PA |
| JENKINS 3-16A3 | 16 | | | 4301330877 | | FEE | OW | PA |
| CHRISTENSEN 2-26A5 | 26 | | | 4301330905 | | | OW | PA |
| FORD 2-36A5 | 36 | | | 4301330903 | | FEE | OW | PA |
| MORTENSEN 2-32A2 | 32 | | | 4301330911 | | FEE | OW | PA |
| WILKERSON 1-20Z1 | 20 | | | 4301330929 | | FEE | OW | PA |
| | 04 | | | 4301330942 | | | OW | PA |
| UTE TRIBAL 2-4A3 S | <u> </u> | | | | | | | |
| OBERHANSLY 2-31Z1 | 31 | | | 4301330970 | | FEE | OW | PA |
| MORRIS 2-7A3 | 07 | | | 4301330977 | | FEE | OW | PA |
| POWELL 2-08A3 | 08 | | | 4301330979 | 1 | | OW | PA |
| FISHER 2-6A3 | 06 | | | 4301330984 | | | OW | PA |
| JACOBSEN 2-12A4 | 12 | | | 4301330985 | | | OW | PA |
| CHENEY 2-33A2 | 33 | | | 4301331042 | 1 | | OW | PA |
| HANSON TRUST 2-29A3 | 29 | | | 4301331043 | | FEE | OW | PA |
| BURTON 2-15B5 | 15 | | | 4301331044 | | | OW | PA |
| EVANS-UTE 2-17B3 | 17 | | | 4301331056 | | | ow | PA |
| ELLSWORTH 2-20B4 | | | | 4301331090 | | FEE | OW | PA |
| REMINGTON 2-34A3 | 34 | | | 4301331091 | | | OW | PA |
| WINKLER 2-28A3 | 28 | | | 4301331109 | | | OW | PA |
| TEW 2-10B5 | 10 | | | 4301331125 | | | OW | PA |
| LINDSAY 2-33A4 | 33 | 0108 | 040W | 4301331141 | 1756 | FEE | OW | PA |
| FIELDSTED 2-28A4 | 28 | 010S | 040W | 4301331293 | 10665 | FEE | OW | PA |
| POWELL 4-13A2 | 13 | 0108 | 020W | 4301331336 | 11177 | FEE | GW | PA |
| DUMP 2-20A3 | | | | 4301331505 | | | OW | PA |
| SMITH 2X-23C7 | | | | 4301331634 | | | D | PA |
| MORTENSEN 3-32A2 | 32 | | | 4301331872 | | | OW | PA |
| TODD USA ST 1-2B1 | 02 | | | 4304730167 | | | OW | PA |
| STATE 1-7B1E | 07 | | | 4304730180 | | FEE | OW | PA |
| BACON 1-10B1E | 10 | | | 4304730881 | | FEE | OW | PA |
| PARIETTE DRAW 28-44 | 28 | | | 4304731408 | | FEE | OW | PA |
| REYNOLDS 2-7B1E | 07 | | | 4304731840 | | FEE | OW | PA |
| STATE 2-35A2 | 35 | | | 4301330156 | <u> </u> | ML-22874 | ow | PA |
| UTAH STATE L B 1-11B1 | 11 | | | 4304730171 | | ML-23655 | OW | PA |
| STATE 1-8A3 | 08 | | | 4301330286 | | ML-24316 | ow | PA |
| UTAH FEDERAL 1-24B1 | 24 | | | 4304730220 | | ML-26079 | OW | PA |
| | | | | | | 14-20-462-1329 | | S |
| CEDAR RIM 15 | 34 | 0305 | OOUVV | 4301330383 | 0292 | 14-20-402-1329 | UVV | 3 |

| LUTE TOIDAL O 0407 | 0.4 | 0000 | 070144 | 4004004000 | 40040 | 44 00 1100 4405 | 014/ | | |
|---------------------------|-----|-------------|----------|-------------|--------------|-----------------|------|--------|--|
| UTE TRIBAL 2-24C7 | 24 | | | | | 14-20-H62-1135 | | S S | |
| CEDAR RIM 12 | 28 | | 1 | | 1 | 14-20-H62-1323 | | | |
| CEDAR RIM 16 | 33 | | | | | 14-20-H62-1328 | | S | |
| SPRING HOLLOW 2-34Z3 | 34 | l | | 4301330234 | · | 14-20-H62-1480 | | S | |
| EVANS UTE 1-17B3 | 17 | | | 4301330274 | | 14-20-H62-1733 | | S | |
| UTE JENKS 2-1-B4 G | 01 | · | | l | · | 14-20-H62-1782 | | S | |
| UTE 3-12B3 | 12 | | | | | 14-20-H62-1810 | | S | |
| UTE TRIBAL 9-4B1 | 04 | | | 4301330194 | | 14-20-H62-1969 | | S | |
| UTE TRIBAL 2-21B6 | 21 | J | | | | 14-20-H62-2489 | | S | |
| UTE 1-33B6 | 33 | | | 4301330441 | | | | S | |
| UTE 2-22B5 | 22 | 1 | | | | 14-20-H62-2509 | | S | |
| UTE 1-18B1E | 18 | | | 4304730969 | | | OW | S | |
| LAUREN UTE 1-23A3 | 23 | 0108 | 030W | 4301330895 | 9403 | 14-20-H62-3981 | OW | S | |
| UTE 2-28B6 | 28 | 0208 | 060W | 4301331434 | 11624 | 14-20-H62-4622 | | S | |
| UTE 1-27B6X | 27 | 020S | 060W | 4301330517 | 11166 | 14-20-H62-4631 | OW | S | |
| UTE 2-27B6 | 27 | 020S | 060W | 4301331449 | 11660 | 14-20-H62-4631 | | S | |
| CEDAR RIM 10-15C6 | 15 | 0308 | 060W | 4301330328 | 6365 | 14-20-H62-4724 | OW | S | |
| UTE 5-30A2 | 30 | 010S | 020W | 4301330169 | 5910 | 14-20-H62-4863 | OW | S | |
| UTE TRIBAL G-1 (1-24C6) | 24 | | 1 | 4301330298 | | 14-20-H62-4866 | | S | |
| UTE TRIBAL FEDERAL 1-30C5 | 30 | | 1 | 4301330475 | | 14-20-H62-4876 | | S | |
| SMB 1-10A2 | 10 | | | 4301330012 | | FEE | OW | S | |
| KENDALL 1-12A2 | 12 | | | 4301330013 | | FEE | OW | S | |
| CEDAR RIM 2 | 20 | | | 4301330019 | | FEE | ow | S | |
| URRUTY 2-9A2 | 09 | | | 4301330046 | 1 | FEE | OW | S | |
| BROTHERSON 1-14B4 | 14 | | | 4301330051 | | FEE | ow | S | |
| RUST 1-4B3 | 04 | | | 4301330063 | | FEE | ow | S | |
| MONSEN 1-21A3 | 21 | 1 | | 4301330082 | | FEE | ow | S | |
| | - | | | 4301330062 | | FEE | OW | S | |
| BROTHERSON 1-10B4 | 10 | | | | | FEE | OW | S | |
| FARNSWORTH 1-12B5 | 12 | | | 4301330124 | | | | S | |
| ELLSWORTH 1-16B4 | 16 | | I | 4301330192 | | FEE | OW | | |
| MARSHALL 1-20A3 | 20 | | | 4301330193 | | FEE | OW | S | |
| CHRISTMAN BLAND 1-31B4 | 31 | | | 4301330198 | | FEE | OW | | |
| ROPER 1-14B3 | 14 | | | 4301330217 | | FEE | OW | S | |
| BROTHERSON 1-24B4 | 24 | | | 4301330229 | | FEE | OW | S | |
| BROTHERSON 1-33A4 | 33 | | | 4301330272 | | FEE | OW | S | |
| BROTHERSON 1-23B4 | 23 | | | 4301330483 | | FEE | OW | S | |
| SMITH ALBERT 2-8C5 | 08 | | | 4301330543 | | | OW | S | |
| VODA JOSEPHINE 2-19C5 | 19 | | | 4301330553 | | | OW | S | |
| HANSEN 1-16B3 | 16 | | · | 4301330617 | · | | OW | S | |
| BROTHERSON 1-25B4 | 25 | | | 4301330668 | | FEE | OW | S | |
| POWELL 2-33A3 | 33 | 010S | 030W | 4301330704 | 2400 | FEE | OW | S | |
| BROWN 2-28B5 | 28 | 0208 | 050W | 4301330718 | 9131 | FEE | OW | S | |
| EULA-UTE 1-16A1 | 16 | 0108 | 010W | 4301330782 | 8443 | FEE | OW | S | |
| JESSEN 1-15A4 | 15 | | | 4301330817 | | FEE | OW | S | |
| R HOUSTON 1-22Z1 | 22 | | | 4301330884 | | FEE | OW | S | |
| FIELDSTED 2-27A4 | 27 | | | 4301330915 | | FEE | OW | S | |
| HANSKUTT 2-23B5 | 23 | | | 4301330917 | | | OW | S | |
| TIMOTHY 3-18A3 | 18 | | | 4301330940 | | FEE | OW | S | |
| BROTHERSON 2-3B4 | 03 | | | 4301331008 | | | OW | S | |
| BROTHERSON 2-22B4 | 22 | | | 4301331086 | | FEE | OW | S | |
| MILES 2-35A4 | 35 | | | 4301331087 | | | OW | S | |
| ELLSWORTH 2-17B4 | 17 | + | | 4301331089 | | FEE | OW | S | |
| RUST 2-36A4 | 36 | | | 4301331092 | | FEE | OW | S | |
| EVANS 2-19B3 | 19 | | | 4301331092 | | FEE | OW | S | |
| | 12 | | | 4301331115 | | FEE | OW | S | |
| FARNSWORTH 2-12B5 | | | | | | | OW | S | |
| CHRISTENSEN 3-4B4 | 04 | + | | 4301331142 | + | | | S | |
| ROBERTSON 2-29A2 | 29 | | <u> </u> | 4301331150 | | | OW | A | |
| CEDAR RIM 2A | 20 | 0308 | UDUVV | 4301331172 | 100/1 | rct | OW | S | |

El Paso E9 Company, L.P. (N3065) to EP Energy E9 Company, L.P. (N3850) effective 6/1/2012

| HARTMAN 2-31A3 | 31 | 0108 | 030W | 4301331243 | 11026 | FEE | OW | S |
|--------------------|----|-------|------|------------|-------|-----|----|----|
| GOODRICH 2-2B3 | 02 | 020\$ | 030W | 4301331246 | 11037 | FEE | OW | S |
| JESSEN 2-21A4 | 21 | 0108 | 040W | 4301331256 | 11061 | FEE | OW | S |
| BROTHERSON 3-23B4 | 23 | 020S | 040W | 4301331289 | 11141 | FEE | OW | S |
| MYRIN RANCH 2-18B3 | 18 | 020\$ | 030W | 4301331297 | 11475 | FEE | OW | S |
| BROTHERSON 2-2B5 | 02 | 020\$ | 050W | 4301331302 | 11342 | FEE | OW | S |
| DASTRUP 2-30A3 | 30 | 010S | 030W | 4301331320 | 11253 | FEE | OW | S |
| YOUNG 2-30B4 | 30 | 020S | 040W | 4301331366 | 11453 | FEE | OW | S |
| IORG 2-10B3 | 10 | 0208 | 030W | 4301331388 | 11482 | FEE | OW | S |
| MONSEN 3-27A3 | 27 | 0108 | 030W | 4301331401 | 11686 | FEE | OW | S |
| HORROCKS 2-5B1E | 05 | 0208 | 010E | 4304732409 | 11481 | FEE | OW | S |
| LARSEN 1-25A1 | 25 | 0108 | 010W | 4304730552 | 815 | FEE | OW | TA |
| DRY GULCH 1-36A1 | 36 | 0108 | 010W | 4304730569 | 820 | FEE | OW | TA |

| | STATE OF UTAH | | FORM 9 |
|--|---|-----------------------------|--|
| | DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING | G | 5.LEASE DESIGNATION AND SERIAL NUMBER: Fee |
| SUNDF | RY NOTICES AND REPORTS ON | WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | oposals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals. | | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, | ,L.P. | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, | | ONE NUMBER: Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NWNW Section: | HIP, RANGE, MERIDIAN: 16 Township: 02.0S Range: 04.0W Meridia | n: U | STATE: UTAH |
| 11. CHEC | K APPROPRIATE BOXES TO INDICATE N | IATURE OF NOTICE, REPOF | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR | | CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: rod repair Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: April 25, 2013 By: |
| | | | |
| NAME (PLEASE PRINT) Lisa Morales | PHONE NUMBER 713 997-3587 | TITLE Regulatory Analyst | |
| SIGNATURE N/A | | DATE 4/22/2013 | |

Rowley 3-16B4 Rod Part Procedure Summary

- POOH w/rods & pump
- Acidize existing perfs w/ 7,500 gal 15% HCl.
- RIH w/ pump and rod string
- Clean location and resume production

Sundry Number: 51212 API Well Number: 43013505690000

| | STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING | | | | | | | | | | | | AMENDED REPORT FORM 8 (highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER: | | | | | | |
|---------------------------------|---|------------|--------------|-------------|--------------|---------------|-----------------|----------|-----------|----------------|----------------------------------|----------|--|------------------------|---------------|-------------------|--|---------|--|
| WEL | L CON | /IPLE | TION | OR I | RECC | MPL | ETIC | ON RI | EPOR | T ANI | DLOG | | 6. IF | INDIAN, A | LLOTTEE OR | TRIB | E NAME | | |
| 1a. TYPE OF WELL | : | (| DIL C | | GAS C | | DRY | | OTHE | R | | | 7. UN | IIT or CA A | AGREEMENT | NAME | | | |
| b. TYPE OF WORK | K: HORIZ. [LATS. [| 7 [| DEEP- [| 7 | RE- ENTRY | 7 | DIFF. RESVR. | | OTHE | :R | | - | 8. WI | ELL NAME | and NUMBE | R: | | | |
| 2. NAME OF OPERA | | | | <u> </u> | | | | | | <u> </u> | | | 9. AP | I NUMBER | ₹: | | | | |
| 3. ADDRESS OF OF | PERATOR: | | CITY | | | STATE | | ZIP | | PHONE | NUMBER: | | 10 FIE | ELD AND F | POOL, OR WI | LDCA ⁻ | Т | | |
| 4. LOCATION OF W AT SURFACE: | ELL (FOOT | AGES) | | | | | | | | | | | 11. Q | TR/QTR, S IERIDIAN: | SECTION, TO | WNS | HIP, RANGE | Ξ, | |
| AT TOP PRODU | CING INTER | RVAL REPO | ORTED BE | ELOW: | | | | | | | | | 12 0 | OUNTY | | 1 12 | . STATE | | |
| AT TOTAL DEPT | H: | | | | | | | | | | | | 12. 0 | OUNTT | | 13 | | UTAH | |
| 14. DATE SPUDDE | D: | 15. DATE | T.D. REA | CHED: | 16. DAT | E COMPL | ETED: | , | ABANDONE | D | READY TO PE | RODUCE [| | 17. ELEV | ATIONS (DF, | RKB, I | RT, GL): | | |
| 18. TOTAL DEPTH: | MD TVD | | | 19. PLUG | BACK T.I | D.: MD TVD | | | 20. IF M | ULTIPLE C | OMPLETIONS, | HOW MAN | Y? * | | G SET: | MD TVD | | | |
| 22. TYPE ELECTRIC | C AND OTH | ER MECHA | NICAL LO | OGS RUN (| Submit co | py of each |) | | | WAS DST | L CORED? RUN? DNAL SURVEY? | ? | NO [NO [| = | s (| Submi | it analysis) it report) it copy) | | |
| 24. CASING AND LI | INER RECO | RD (Repor | t all string | gs set in w | rell) | | 1 | | ī | | • | Ī | | | | | r | | |
| HOLE SIZE | SIZE/GI | RADE | WEIGH | T (#/ft.) | TOP | (MD) | вотто | OM (MD) | | EMENTER PTH | CEMENT TY NO. OF SAG | | SLUR | | CEMENT TO | P ** | AMOUNT | PULLED | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 25. TUBING RECOF | RD | I | _ | | _ | | | _ | | _ | _ | <u> </u> | | | | | | | |
| SIZE | DEPTH | H SET (MD) | PAC | KER SET (| MD) | SIZE | | DEPTH | SET (MD) | PACKE | R SET (MD) | SIZ | Œ | DE | PTH SET (MD | D) | PACKER S | ET (MD) | |
| 26. PRODUCING IN | TERVALS | | | | | | | <u> </u> | | 27 PERFO | RATION RECO | ORD. | | | | | | | |
| FORMATION | | TOI | P (MD) | BOTTO | OM (MD) | TOP | (TVD) | вотто | M (TVD) | | AL (Top/Bot - MI | | ZE | NO. HOLE | S PER | RFOR/ | ATION STA | TUS | |
| (A) | | | | | | | | | | | | | | | Open |] ; | Squeezed | | |
| (B) | | | | | | | | | | | | | | | Open | 7 ; | Squeezed | | |
| (C) | | | | | | | | | | | | | | | Open | - | Squeezed | | |
| (D) | | | | | | | | | | | | | | | Open | = | Squeezed | 一 | |
| 28. ACID, FRACTUR | RE, TREATI | MENT, CEN | IENT SQL | JEEZE, ET | c. | | | 1 | | | | | | | | | | | |
| DEPTH | INTERVAL | | | | | | | | AMC | UNT AND | TYPE OF MATE | RIAL | | | | | | | |
| • | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 29. ENCLOSED AT | TACHMENT | s: All | 10 | gs a | re s | ubmi | tte | d to | UDO | GM by | vendo | or. | | | 30. | WELL | STATUS: | | |
| = | RICAL/MEC | | | D CEMENI | r Vedicio | ΔΤΙΟΝΙ | | GEOLOG | IC REPORT | \equiv | DST REPORT | | IRECT | IONAL SU | IRVEY | | | | |
| ☐ 20NDk | . INOTICE | I OK FLUG | OIIVG AIVI | CEIVIEIN | VERIFICA | ATION | ш | OURE AN | 47L 313 | ш | OTHER: | | | | [| | | | |

(CONTINUED ON BACK)

Sundry Number: 51212 API Well Number: 43013505690000

| 31. INITIAL PR | ODUCTION | | | | INT | ERVAL A (As sho | s shown in item #26) | | | | | | | |
|-----------------------------------|--------------------|----------------|-------------------|------------|---|-----------------------|------------------------------|--------|---------|-----------|-------|---------|---------------|------------------------|
| DATE FIRST PR | RODUCED: | TEST DA | TE: | | HOURS TESTE | D: | TEST PRODUCTION RATES: → | OIL - | - BBL: | GAS – | MCF: | WATER - | - BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL- | - BBL: | GAS- | MCF: | WATER - | - BBL: | INTERVAL STATUS: |
| | • | • | • | | INT | ERVAL B (As sho | wn in item #26) | • | | • | | • | | |
| DATE FIRST PR | RODUCED: | TEST DA | TE: | | HOURS TESTE | D: | TEST PRODUCTION RATES: → | OIL - | - BBL: | GAS – | MCF: | WATER - | - BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL- | - BBL: | GAS – | MCF: | WATER - | - BBL: | INTERVAL STATUS: |
| | | | | | INT | ERVAL C (As sho | wn in item #26) | | | | | | | |
| DATE FIRST PR | RODUCED: | TEST DA | TE: | | HOURS TESTE | D: | TEST PRODUCTION RATES: → | OIL - | - BBL: | GAS – | MCF: | WATER - | - BBL: | PROD. METHOD: |
| CHOKE SIZE: | TBG. PRESS. | CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL - | - BBL: | GAS – | MCF: | WATER - | - BBL: | INTERVAL STATUS: |
| | | | | | INT | ERVAL D (As sho | wn in item #26) | | | | | | | |
| DATE FIRST PR | RODUCED: | TEST DA | TE: | | HOURS TESTED: TEST PRODUCTION OIL – BBL: GAS – MCF: WATER – BBL: PROD. METHOD: RATES: → | | | | | | | | PROD. METHOD: | |
| CHOKE SIZE: | TBG. PRESS. | CSG. PR | ESS. API GR | AVITY | BTU – GAS GAS/OIL RATIO 24 HR PRODUCTION OIL – BBL: GAS – M RATES: → | | | | | | | WATER - | - BBL: | INTERVAL STATUS: |
| 32. DISPOSITIO | ON OF GAS (So | ld, Used for F | Fuel, Vented, Etc | :.) | | | | | | | | | | |
| 33. SUMMARY | OF POROUS Z | ONES (Includ | e Aquifers): | | | | 3 | 4. FOF | RMATION | (Log) MAR | KERS: | | | |
| Show all importatested, cushion u | | | | | | n tests, including de | epth interval | | | | | | | |
| Formati | on | Top (MD) | Bottom (MD) | | Descrip | otions, Contents, etc | b. | Name | | | | | | Top Measured Depth) |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 35. ADDITIONA | AL REMARKS (I | nclude nluggi | ing procedure) | <u> </u> | | | | | | | | | | |
| oo. Abbinona | in remarked (i | norade pragg | ing procedure, | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 36. I hereby ce | rtify that the for | regoing and a | attached informa | ation is c | omplete and corr | ect as determined | from all available rec | ords. | | | | | | |
| NAME (DI EAG | SE PRINT\ | | | | | | TITI F | | | | | | | |
| | | | | | | | TITLE | | | | | | | |
| SIGNATURE | | | | | DATE | | | | | | | | | |

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: May. 14, 2014

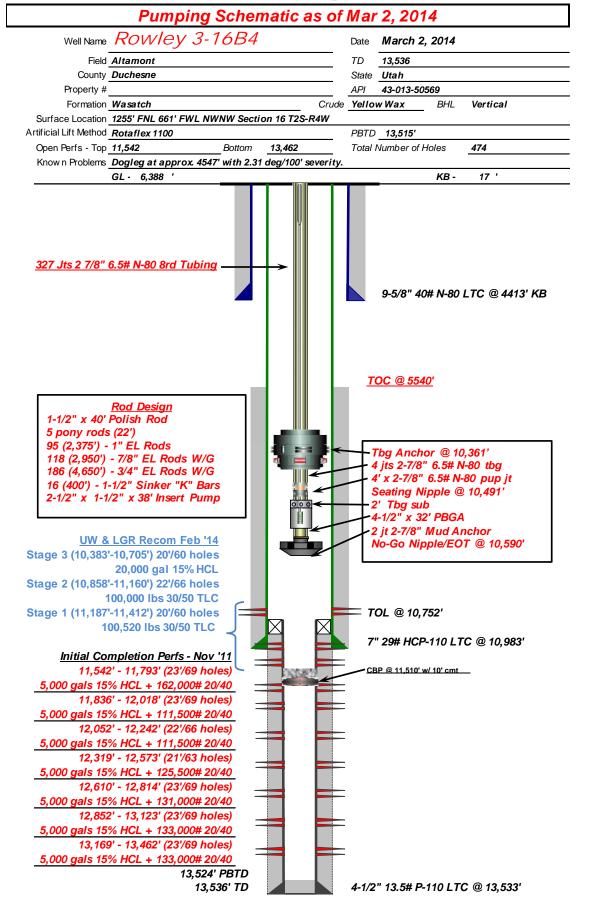
^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

| | STATE OF UTAH | | FORM 9 |
|--|--|-----------------------------------|--|
| | DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN | | 5.LEASE DESIGNATION AND SERIAL NUMBER: |
| | DIVISION OF OIL, GAS, AND WIN | | Fee |
| | RY NOTICES AND REPORTS (| | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | oposals to drill new wells, significantly dreenter plugged wells, or to drill horizon nfor such proposals. | | 7.UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL Oil Well | | | 8. WELL NAME and NUMBER: ROWLEY 3-16B4 |
| 2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, | L.P. | | 9. API NUMBER: 43013505690000 |
| 3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, | | PHONE NUMBER: 38 Ext | 9. FIELD and POOL or WILDCAT: ALTAMONT |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 1255 FNL 0661 FWL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NWNW Section: | HIP, RANGE, MERIDIAN: 16 Township: 02.0S Range: 04.0W Meri | dian: U | STATE: UTAH |
| 11. CHEC | K APPROPRIATE BOXES TO INDICAT | E NATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| - | ACIDIZE | CASING REPAIR | |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| 11/20/2015 | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT | DEEPEN | FRACTURE TREAT | NEW CONSTRUCTION |
| Date of Work Completion: | OPERATOR CHANGE | PLUG AND ABANDON | PLUG BACK |
| | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | ✓ RECOMPLETE DIFFERENT FORMATION |
| SPUD REPORT Date of Spud: | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | TUBING REPAIR | VENT OR FLARE | WATER DISPOSAL |
| DRILLING REPORT | WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION |
| Report Date: | | OTHER | OTHER: |
| 40.000000000000000000000000000000000000 | WILDCAT WELL DETERMINATION | OTHER | OHEK. |
| | the Wasatch/LGR to LGR. Se | | Approved by the UNakeOmbicion6of2015 Oil, Gas and Mining |
| | | | Date: |
| | | | By: Dork Out |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| NAME (PLEASE PRINT) | PHONE NUMBE | | ×+ |
| Maria S. Gomez SIGNATURE | 713 997-5038 | Principal Regulatory Analys DATE | bt |
| N/A | | 11/12/2015 | |

Rowley 3-16B4 Recom Summary Procedure

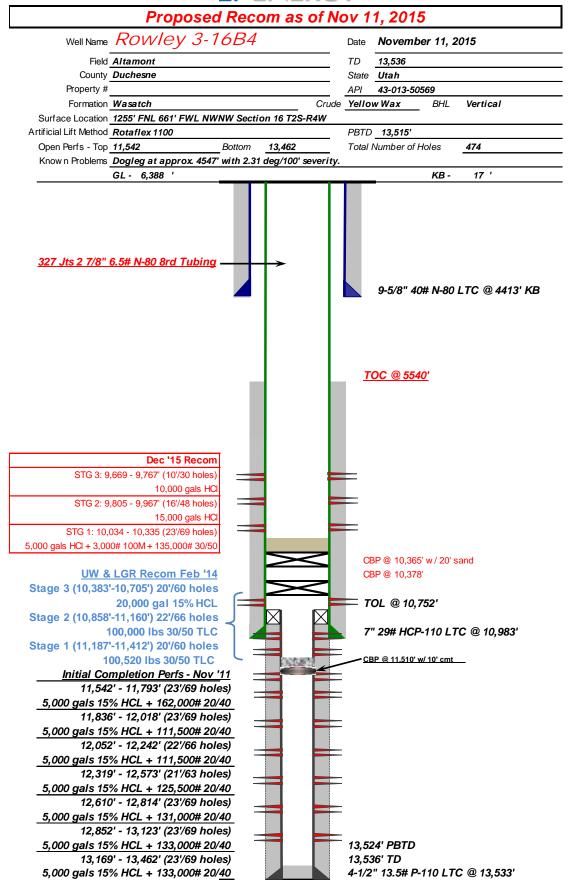
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set two CBPs for 7" 29# casing @ 10,378' & 10,365' to plug back currently producing zones (Top perf @ 10,383'). Dump bail 20' sand on top of plug @ 10,365'.
- Stage 1:
 - o Perforate new LGR interval from 10,034 10,335'.
 - Prop Frac Perforations with 135,000 lbs 30/50 prop (w/ 3,000 lbs 100 mesh & 5,000 gals 15% HCl acid) (Stage 1 Recom).
- Stage 2:
 - o RIH with 7" CBP & set @ 9,982'.
 - o Perforate new LGR interval from 9,805 9,967'.
 - o Prop Frac Perforations with **15,000** gals 15% HCl acid) (Stage 2 Recom).
- Stage 3:
 - o RIH w/ 7" CBP & set @ 9,782'.
 - o Perforate new LGR interval from 9,669 9,767'.
 - o Acidize perforations with w/ **10,000** gals 15% HCl acid) (Stage 3 Recom).
- Clean out well drilling up (2) 7" CBP's, leaving 20' sand on top of 7" CBP @ 10,365'. Top perf BELOW plug @ 10,383'.
- RIH w/ production tubing and rods.
- Clean location and resume production.

EP ENERGY



2

EP ENERGY



| | STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING | | | | | | | | | | | | AMENDED REPORT FORM 8 (highlight changes) | | | | |
|---------------------------------|---|------------|--------------|------------------|--------------|---------------|-----------------|---------|--------------|----------------|-----------------------------|-----------|---|--------------------------------|-------------------------------------|--|--|
| | | | DIVIS | ION O | F OIL, | GAS | AND N | MININ | G | | | 5. | LEASE DES | SIGNATION AND S | ERIAL NUMBER: | | |
| WELI | L CON | /IPLE | TION | OR I | RECC | MPL | ETIO | N RI | EPOR | T ANI | D LOG | 6. | IF INDIAN, A | ALLOTTEE OR TR | IBE NAME | | |
| 1a. TYPE OF WELL | : | (| DIL C | | GAS C | | DRY [| | OTHE | R | | 7. | UNIT or CA | AGREEMENT NAM | МЕ | | |
| b. TYPE OF WORK | K: HORIZ. L LATS. | 7 : | DEEP- | 7 | RE- ENTRY | 7 | DIFF. RESVR. | _ | OTHE | :D | | 8. | WELL NAM | IE and NUMBER: | | | |
| 2. NAME OF OPERA | | | -IN | | LINIIXI L | | KLOVK. L | | OTTIL | | | 9. | API NUMBE | ER: | | | |
| 3. ADDRESS OF OF | PERATOR: | | | | | | | | | PHONE | E NUMBER: | 10 | FIELD AND | POOL, OR WILDO | AT | | |
| 4. LOCATION OF W AT SURFACE: | ELL (FOOT | | CITY | | | STATE | | ZIP | | | | 11. | QTR/QTR, MERIDIAN | , SECTION, TOWN 1: | SHIP, RANGE, | | |
| AT TOP PRODUC | CING INTER | RVAL REPO | ORTED BE | ELOW: | | | | | | | | | | | | | |
| AT TOTAL DEPT | H: | | | | | | | | | | | 12. | COUNTY | | 13. STATE UTAH | | |
| 14. DATE SPUDDED | D: | 15. DATE | T.D. REA | CHED: | 16. DAT | E COMPLI | ETED: | , | ABANDONE | D 🗌 | READY TO PR | ODUCE | 17. ELE\ | VATIONS (DF, RKE | 3, RT, GL): | | |
| 18. TOTAL DEPTH: | MD TVD | | | 19. PLUG | BACK T.E | D.: MD TVD | | | 20. IF M | ULTIPLE C | OMPLETIONS, F | HOW MANY? | | TH BRIDGE MD UG SET: TVI | | | |
| 22. TYPE ELECTRIC | | ER MECHA | NICAL LC | OGS RUN (| (Submit co | |) | | | 23. | | | | | | | |
| | | | | | | | | | | WAS DST | LL CORED? RUN? DNAL SURVEY? | NO NO | | YES (Sub | mit analysis) mit report) mit copy) | | |
| 24. CASING AND LI | INER RECO | RD (Repor | t all string | gs set in w | rell) | | | | | | | | | <u> </u> | | | |
| HOLE SIZE | SIZE/GI | RADE | WEIGH | T (#/ft.) | TOP | (MD) | BOTTO | M (MD) | | EMENTER PTH | CEMENT TYP NO. OF SAC | | URRY ME (BBL) | CEMENT TOP ** | AMOUNT PULLED | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 25. TUBING RECOR | - | H SET (MD) | PACI | KER SET (| MD) | SIZE | 1 | DEPTH | I SET (MD) | PACKE | R SET (MD) | SIZE | | PEPTH SET (MD) | PACKER SET (MD) | | |
| OIZE | DEI III | TOLT (MD) | T AOI | KER OLT (| IVID) | OIZL | | DEI III | I OLT (IVID) | TAORE | IK OLT (WID) | OIZE | | PET TIT GET (MD) | TAORER GET (MD) | | |
| 26. PRODUCING IN | TERVALS | | | | | | | | | 27. PERFO | RATION RECO | RD | | | • | | |
| FORMATION | NAME | TO | P (MD) | BOTTO | OM (MD) | TOP (| (TVD) | вотто | M (TVD) | INTERVA | AL (Top/Bot - MD |) SIZE | NO. HOL | .ES PERFO | RATION STATUS | | |
| (A) | | | | | | | | | | | | | | Open | Squeezed | | |
| (B) | | | | | | | | | | | | | | Open | Squeezed | | |
| (C) | | | | | | | | | | | | | | Open | Squeezed | | |
| (D) | | | | | | | | | | | | | | Open | Squeezed | | |
| 28. ACID, FRACTUR | RE, TREATI | MENT, CEN | IENT SQL | JEEZE, ET | c. | | | | | | | | | | | | |
| DEPTH I | INTERVAL | | | | | | | | AMC | UNT AND T | TYPE OF MATER | RIAL | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 29. ENCLOSED ATT | TACHMENT | s: CB | P's @ | ² 103 | 78' & | 1036 | 5' w/ | 20' s | and o | n top | | | | 30. WEL | LL STATUS: | | |
| = | RICAL/MEC | | | | | | = | | IC REPORT | \equiv | DST REPORT | DIRE | CTIONAL S | SURVEY | | | |
| SUNDR | RY NOTICE | FOR PLUG | GING ANI | D CEMENT | Γ VERIFICA | ATION | | CORE AN | ALYSIS | \Box | OTHER: | | | | | | |

(CONTINUED ON BACK)

(5/2000)

| 31. INITIAL PRO | ODUCTION | | | | INT | ERVAL A (As sho | wn in item #26) | | | | | | | | |
|------------------|--------------------|----------------|---|------------|------------------|-----------------------|-----------------------------|-------------------------------------|-----------|--------------|------------------|-----|------------------------|--|--|
| DATE FIRST PR | RODUCED: | TEST DA | TE: | | HOURS TESTED | D: | TEST PRODUCTION RATES: → | N OIL- | BBL: | GAS - MCF: | WATER – B | BL: | PROD. METHOD: | | |
| CHOKE SIZE: | TBG. PRESS. | . CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTIO RATES: → | N OIL- | BBL: | GAS - MCF: | WATER – B | BL: | INTERVAL STATUS: | | |
| | | • | | | INT | ERVAL B (As sho | wn in item #26) | | | | • | | | | |
| DATE FIRST PR | ODUCED: | TEST DA | TE: | | HOURS TESTER | D: | TEST PRODUCTION RATES: → | N OIL- | BBL: | GAS - MCF: | WATER – B | BL: | PROD. METHOD: | | |
| CHOKE SIZE: | TBG. PRESS. | . CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTIO RATES: → | N OIL – | BBL: | GAS - MCF: | WATER – B | BL: | INTERVAL STATUS: | | |
| | | | | | INT | ERVAL C (As sho | wn in item #26) | | | | | | | | |
| DATE FIRST PR | ODUCED: | TEST DA | TE: | | HOURS TESTED | D: | TEST PRODUCTION RATES: → | TEST PRODUCTION OIL – BBL: RATES: → | | | WATER – B | BL: | PROD. METHOD: | | |
| CHOKE SIZE: | TBG. PRESS. | . CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTIO RATES: → | N OIL – | BBL: | GAS - MCF: | WATER – B | BL: | INTERVAL STATUS: | | |
| | | • | | | INT | ERVAL D (As sho | shown in item #26) | | | | | | | | |
| DATE FIRST PR | ODUCED: | TEST DA | TE: | | HOURS TESTED | D: | TEST PRODUCTION RATES: → | N OIL- | BBL: | GAS - MCF: | WATER – B | BL: | PROD. METHOD: | | |
| CHOKE SIZE: | TBG. PRESS. | . CSG. PR | ESS. API GR | AVITY | BTU – GAS | GAS/OIL RATIO | BBL: | GAS - MCF: | WATER – B | BL: | INTERVAL STATUS: | | | | |
| 32. DISPOSITIO | ON OF GAS (So | ld, Used for F | uel, Vented, Etc | :.) | | | | • | | | | | | | |
| 33. SUMMARY | OF POROUS Z | ONES (Includ | e Aquifers): | | | | | 34. FOR | MATION (L | og) MARKERS: | | | | | |
| | | | ents thereof: Core nd shut-in pressu | | | n tests, including de | epth interval | | | | | | | | |
| Formation | on | Top (MD) | Bottom (MD) | | Descrip | otions, Contents, etc | ÷. | | | Name | | (N | Top Measured Depth) | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | |
| 35. ADDITIONA | L REMARKS (I | nclude pluggi | ing procedure) | <u>!</u> | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 36. I hereby cer | rtify that the for | regoing and a | ttached informa | ation is c | omplete and corr | ect as determined | from all available re | cords. | | | | | | | |
| NAME (PLEAS | SE PRINT) | | | | | | TITLE | | | | | | | | |
| SIGNATURE _ | | | | | | | DATE | | | | | | | | |
| | | | | | DATE | | | | | | | | | | |

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining

1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

RECEIVED: Jan. 12, 2016

^{*} ITEM 20: Show the number of completions if production is measured separately from two or more formations.

CENTRAL DIVISION

1 General

Customer Information 1.1

| Company | CENTRAL DIVISION |
|----------------|------------------|
| Representative | |
| Address | |

1.2 **Well Information**

| Well | ROWLEY 3-16B4 | | | |
|-----------------|--------------------------------------|----------|-----------------|--|
| Project | ALTAMONT FIELD | Site | ROWLEY 3-16B4 | |
| Rig Name/No. | | Event | RECOMPLETE LAND | |
| Start date | 11/27/2015 | End date | 12/7/2015 | |
| Spud Date/Time | 9/15/2011 | UWI | ROWLEY 3-16B4 | |
| Active datum | KB @6,405.0ft (above Mean Sea Level) | · | | |
| Afe | 165875/55175 / ROWLEY 3-16B4 | | | |
| No./Description | | | | |

2 Summary

2.1 **Operation Summary**

| Date | | Fime art-End | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD from (ft) | Operation |
|------------|-------|-----------------|----------------------|--------|--------------|-----|------------|-----------------|---|
| 11/28/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; MOVING RIG |
| | 7:00 | 9:30 | 2.50 | MIRU | 01 | | Р | | ROAD RIG FROM THE THOMAS 1-33C4 TO LOCATION SLIDE ROTOFLEX PUMP 60 BBLS OF HOT 2% KCL DOWN CSG MIRU |
| | 9:30 | 13:40 | 4.17 | WOR | 39 | | Р | | L/D POLISH ROD UNSEAT PUMP TOH w 95-1" RODS 111-7/8" RODS L/D 7-7/8" RODS 113-3/4" RODS L/D 73-3/4" RODS L/D 16-C BARS L/D PUMP |
| | 13:40 | 15:10 | 1.50 | WOR | 16 | | Р | | N/D WELL HEAD N/U AND TEST BOPE |
| | 15:10 | 18:00 | 2.83 | WOR | 39 | | Р | | RELEASE 7" TAC MIRU TBG SCANING EQUIPMENT SOH SCANNING TBG 90 JTS OF 2 7/8" TBG SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES AND NIGHT CAP INSTALL TIW VALVE W NIGHT CAP SDFN |
| 11/29/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIE JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 11:27 | 4.45 | WOR | 39 | | Р | | CONTINUE TOH SCANNING TBG L/D BHA TTL OF 1-RED 42-BLUE 286-YELLOW |
| | 11:27 | 18:30 | 7.05 | WLWORK | 21 | | Р | | MIRU WIRELINE TEST LUBRICATOR w HOT OIL TRUCK GOOD TEST TIH w 6" GAUGE RING TO 10382' TOH L/D SAME TIH w 7" CBP AND SET AT 10378' TOH L/D SETTING TOOL FILL CSG w 370 BBLS OF HOT 2% KCL WATER TIH w 2ND 7" CBP PRESSURE UP TO 2000 PSI SET AT 10365' TOH L/D SETTING TOOL TIH DUMP BAIL 20' OF SAND RDMO WIRELINE SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES AND NIGHT CAP INSTALL TIW VALVE w NIGHT CAP SDFN |
| 11/30/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIE JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 11:44 | 4.73 | WOR | 16 | | Р | | THOW OUT WELL HEAD N/D BOPE N/U 7" MASTER FRAC VALVE ATTEMPT TO TEST 7" CSG AT 5500 PSI PLUGS FAILED |
| | 11:44 | 14:02 | 2.30 | WOR | 16 | | Р | | N/U 5K BOPE AND TEST GOOD TEST |
| | 14:02 | 15:43 | 1.68 | WLWORK | 27 | | Р | | MIRU WIRELINE TIH w 6" GAUGE RING TAG AT 10369' TOH L/D GAUGE RING |
| | 15:43 | 17:30 | 1.78 | WLWORK | 27 | | Р | | P/U WCS 7" 10K CBP TIH SET AT 10366' TOH RDMO WIRELINE |

RECEIVED: Jan. 12, 2016 January 11, 2016 at 1:48 pm

CENTRAL DIVISION

| Date | | Гіте | Duratio | Phase | Activit | Sub | OP | MD from | Operation |
|-----------|-------|--------|---------|---------|---------|-----|------|---------|--|
| Duto | | rt-End | n | 1 11400 | y | Gub | Code | (ft) | Срочинон |
| | | | (hr) | | , | | Code | (11) | |
| | 17:30 | 20:00 | 2.50 | WOR | 39 | | Р | | P/U 7" WCS TS PLUG TIH w 286 JTS OF 2 7/8" TBG EOT 9058' |
| | | | | | | | | | SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES |
| | | | | | | | | | w NIGHT CAPS INSTALL TIW VALVE w NIGHT CAP SDFN |
| 12/1/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIE JSA |
| | | | | | | | | | TOPIC; RIG OPERATIONS |
| | 7:00 | 9:00 | 2.00 | WOR | 39 | | Р | | THAW OUT 7" CSG VALVES OPEN WELL CONTINUE TIH w |
| | | | | | | | | | 40-JTS OF 2-7/8" TBG SET WCS TS RBP AT 10360' |
| | 9:00 | 10:00 | 1.00 | WOR | 06 | | Р | | SPOT 20' OF SAND w 60 BBLS OF 2% KCL WATER |
| | 10:00 | 12:40 | 2.67 | WOR | 39 | | Р | | TOH w 326-JTS OF 2-7/8" TBG L/D SETTING TOOL START MOVING I FRAC EQUIPMENT |
| | 12:40 | 14:30 | 1.83 | WLWORK | 21 | | Р | | MIRU WIRELINE P/U DUMP BAILER w 10' OF SAND TIH TAG |
| | | | | | | | | | SAND TOP AT 10335' DUMP 10' TOH L/D BAILER |
| | 14:30 | 15:15 | 0.75 | WOR | 27 | | Р | | TEST PLUGS AND 7" CSG TO 7500 PSI |
| | 15:15 | 19:00 | 3.75 | WOR | 16 | | Р | | N/D BOPE N/U FRACK STACK AND TEST TO 9500 PSI AND |
| | | | | | | | | | CHART |
| | 19:00 | 21:30 | 2.50 | WLWORK | 21 | | Р | | TIH w 3 1/8" GUNS TAG PBTD AT 10326' PERFORATE STG 1 |
| | | | | | | | | | PERFS 10324' TO 10034' 23 NET FT 69 SHOTS 17 INTERVAL w |
| | | | | | | | | | 22.7 GM CHARGES 3 JSPF 120 PHASING ALL PERFORATIONS |
| | | | | | | | | | CORRELATED TO THE LONE WOLF CBL/GR/CCL RUN #1 |
| | | | | | | | | | 11/2/2011 TOH L/D GUN SECURE WELL CLOSE 7" MASTER |
| | | | | | | | | | VALVE CLOSE 2-HCR VALVE AND LOCK 7" CSG VALVES |
| | | | | | | | | | CLOSED AND NIGHT CAPS INSTALLED SDFN |
| 12/2/2015 | 6:00 | 7:00 | 1.00 | SITEPRE | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA |
| | | | | | | | | | TOPIC; FRAC OPERATIONS |
| | 7:00 | 12:24 | 5.40 | MIRU | 01 | | Р | | FINISH RIGGING UP FRAC EQUIPMENT |
| | 12:24 | 17:30 | 5.10 | STG01 | 35 | | Р | | STAGE 1; PRESSURE TEST LINES TO 9400 PSI. SET POP OFF TO |
| | | | | | | | | | 7670 PSI PREPARE TO PUMP STG 1 AGITATOR IN THE BLENDER |
| | | | | | | | | | GOT BENT UNABLE TO REPAIR ON LOCATION ASK ABOUT A |
| | | | | | | | | | DIFFERENT BLENDER WAS TOLD IT WAS FROZE UP SETTING IN |
| | | | | | | | | | ROOSEVELT BRAKE OUT BLENDER SEND TO VERNAL TO BE |
| | | | | | | | | | REPAIRED DRAIN AND PICKLE PUMP LINES AND FLOW BACK |
| | | | | | | | | | LINES METHANOL WELL HEAD TO GROUND VALVE SECURE |
| | | | | | | | | | WELL CLOSE 7" MASTER VALVE CLOSE 2-HCR VALVE AND |
| | | | | | | | | | LOCK 7" CSG VALVES CLOSED AND NIGHT CAPS INSTALLED |
| | | | | | | | _ | | SDFN |
| 12/3/2015 | 6:00 | 7:00 | 1.00 | STG01 | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA |
| | | | | | | | | | TOPIC; FRAC OPERATIONS MIRU NEW BLENDER PREPARE |
| | | | | | | | | | LOCATION FOR FRAC |
| | 7:00 | 10:00 | 3.00 | STG01 | 35 | | Р | | THAW OUT PUMP TRUCK AND LINES |
| | 10:00 | 14:00 | 4.00 | STG01 | 35 | | Р | | STAGE 1; PRESSURE TEST LINES TO 8634 PSI. OPEN WELL. |
| | | | | | | | | | SICP 0 PSI. FILL CSG w 214 BBLS BREAK DOWN STAGE 1 |
| | | | | | | | | | PERFORATIONS 10324' TO 10034' AT 2054 PSI, PUMPING 10 |
| | | | | | | | | | BPM. STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN |
| | | | | | | | | | ISDP 2359 FG .66 5MIN 350 10 MIN 18 15MIN 0 TREATED STAGE |
| | | | | | | | | | 1 AS PER PROCEDURE TREAT W/ 5000 GAL 15% HCL ACID |
| | | | | | | | | | FR-76 WATER ACID FLUSH 25# HYBOR G PAD FR-76 100 MESH |
| | | | | | | | | | 20# XL THROUGH THE REST OF THE JOB SPACER .05# PW30/50 |
| | | | | | | | | | 1# PW 30/50 20# HYBOR 2# PW30/50 20# HYBOR G 3# |
| | | | | | | | | | PW30/50 STG FLUSH TO TOP PERFISDP 3293 PSI. AVG RATE |
| | | | 1 | 1 | | | | | 75 DDM AVO DOLOGOO DOL MAY DOL 4540 DOL TTI DDOD 400000 |
| | | | | | | | | | 75 BPM. AVG PSI 3803 PSI. MAX PSI 4548 PSI. TTL PROP 138260 |

CENTRAL DIVISION

| Date | 1 | ime | Duratio | Phase | Activit | Sub | OP | MD from | Operation |
|-----------|-------|--------|--------------|-------|---------|-----|------|---------|--|
| | | rt-End | n | | у | | Code | (ft) | · |
| | 14:00 | 16:43 | (hr) 2.72 | STG02 | 21 | | P | | STAGE 2; SET COMPOSITE FRAC PLUG AT 9982' PRESSURE ON |
| | | .00 | ,_ | 0.002 | | | · | | WELL 900 PSI PERFORATE STAGE 2 PERFORATIONS 9967'TO 9805, 16 NET FEET 48 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING GUNS GUN SHORTED TOH REPAIR GUN TIH FINSH PERFORATEING END PRESSURE 0 PSI ALL PERFORATIONS |
| | | | | | | | | | CORRELATED TO THE LONE WOLF CBL/GR/CCL RUN #1 11/2/2011 |
| | 16:43 | 17:46 | 1.05 | STG02 | 35 | | Р | | STAGE 2 ACID; PRESSURE TEST LINES TO 8708 PSI. OPEN WELL. SICP 0 PSI. BREAK DOWN STAGE 2 PERFORATIONS 9967'TO 9805' AT 3534 PSI, PUMPING 10 BPM. STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 2115 FG .65 5MIN 1614 10 MIN 1420 15MIN 1225 TREATED STAGE 2 AS PER PROCEDURE TREAT W/ 7500 GAL 15% ACID SPACER DROP 95 BBLS 7500 GAL 15% ACID FLUSH TO BTM PERFISDP 1949 PSI. AVG RATE 46 BPM. AVG PSI 3160 PSI. MAX PSI 3677 PSI. 5MIN 1528 10MIN 1279 15 MIN 1110 TURN OVER TO WIRELINE |
| | 17:46 | 19:40 | 1.90 | STG03 | 21 | | P | | STAGE 3; SET COMPOSITE FRAC PLUG AT 9782' PRESSURE ON WELL 300 PSI PERFORATE STAGE 3 PERFORATIONS 9767' TO 9669', 10 NET FEET 30 TTL SHOTS W/ 2-3/4" 3 JSPF, 120 DEG PHASING END PRESSURE 300 PSI ALL PERFORATIONS CORRELATED TO THE LONE WOLF CBL/GR/CCL RUN #1 11/2/2011 |
| | 19:40 | 20:30 | 0.83 | STG03 | 35 | | Р | | STAGE 3 ACID; PRESSURE TEST LINES TO 9200 PSI. OPEN WELL. SICP 100 PSI. BREAK DOWN STAGE 3 PERFORATIONS 9767' TO 9669' AT 1194 PSI, PUMPING 10 BPM. STEP DOWN RATE IN 4 STEPS SHUT DOWN FOR 15 MIN ISDP 1576 PSI FG .60 5MIN 515 10 MIN 366 15MIN 270 TREATED STAGE 3 AS PER PROCEDURE TREAT W/ 5000 GAL 15% ACID SPACER DROP 95 BBLS 5000 GAL 15% ACID FLUSH TO BTM PERFISDP 1579 PSI. AVG RATE 34 BPM. AVG PSI 3477 PSI. MAX PSI 7570 PSI. 5MIN 1047 10MIN 832 15 MIN 703 SHUT WELL IN FOR 3 HRS |
| | 20:30 | 0:00 | 3.50 | RDMO | 02 | | Р | | RDMO WIRELINE RIG DOWN FRAC EQUIPMENT |
| 12/4/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; N/D FRAC STACK |
| | 7:00 | 10:01 | 3.02 | WOR | 16 | | Р | | CSIP 0 PSI WELL ON VACUUM N/D FRAC STACK N/U AND TEST 5K BOPE |
| | 10:01 | 12:58 | 2.95 | WOR | 39 | | P | | P/U 6" RB TIH w 309-JTS OF 2-7/8 TBG TAG AT 9786' TMD |
| | 12:58 | 18:00 | 5.03 | WOR | 10 | | Р | | R/U POWER SWIVEL ESTABLISH CIRC w 40 BBLS OF 2% KCL WATER DRILL PLUG CBP AT 9782' WLM C/O TO 9801' TMD CIRC WELL CLEAN R/D POWER SWIVEL TOH w 6-JTS OF 2-7/8" TBG ABOVE PERFS EOT 9605' SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES AND NIGHT CAP INSTALL TIW VALVE w NIGHT CAP DRAIN PUMP AND LINES SDFN |
| 12/5/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 16:30 | 9.50 | WOR | 06 | | Р | | TIH w 6-JTS TAG UP AT 9985' TMD R/U POWER SWIVEL DRILL 7" PLUG CONTINUE C/O TO PBTD 10370' TMD TOP OF RBP CIRC WELL CLEAN |
| | 16:30 | 17:30 | 1.00 | WOR | 39 | | Р | | R/D POWER SWIVEL SOH w 42-JTS OF 2-7/8" TBG EOT 9638' SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES AND NIGHT CAP INSTALL TIW VALVE w NIGHT CAP DRAIN PUMP AND LINES SDFN |
| 12/6/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 10:30 | 3.50 | WOR | 39 | | Р | | FINISH TOH w 304-JTS OF 2-7/8 TBG L/D BIT |

CENTRAL DIVISION

| Date | Time Start-End | | Duratio n (hr) | Phase | Activit y | Sub | OP Code | MD from (ft) | Operation |
|-----------|-------------------|-------|----------------------|-------|--------------|-----|------------|-----------------|--|
| | 10:30 | 13:09 | 2.65 | WOR | 39 | | Р | | P/U RETRIEVING TOOL TIH w 327-JTS OF 2-7/8" TBG ATEMPT TO RELEASE 7" RBP FAILED R/U POWER SWIVEL ESTALISH CIRC CLEAN OFF TOP PF PLUG AND RELEASE R/D POWER SWIVEL |
| | 13:09 | 16:41 | 3.53 | WOR | 39 | | Р | | TOH L/D 47-JTS OF 2-7/8" TBG (WS) CONTINUE STANDING BACK 280-JTS OF 2-7/8" TBG L/D PLUG |
| | 16:41 | 18:00 | 1.32 | WOR | 39 | | Р | | TIH w 40-JTS OF 2-7/8" TBG EOT 1264' SECURE WELL CLOSE BOPE AND LOCK CLOSE 7" CSG VALVES AND NIGHT CAP INSTALL TIW VALVE w NIGHT CAP DRAIN PUMP AND LINES SDFN |
| 12/8/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 8:00 | 1.00 | WOR | 39 | | Р | | TOH w 40-JTS OF 2-78' TBG |
| | 8:00 | 14:00 | 6.00 | WOR | 39 | | Р | | MIRU HYDROTEST TOOL TEST P/U 5-3/4" NO-GO 2-JTS OF 2-7/8" TBG 4-1/2" PBGA 2' X 2-7/8" TBG SUB 2-7/8" PSN 4' X 2-7/8" TBG SUB 4-JTS OF 2-7/8" TBG 7" TAC 274-JTS OF 2-7/8" TBG R/D HYDROTEST TOOLS 2- JTS FAILED TEST SET 7" TAC AT 8679' |
| | 14:00 | 17:00 | 3.00 | WOR | 16 | | Р | | N/D BOPE N/U WELL HEAD FLUSH TBG w 60 BBLS OF HOT 2% KCL PREPARE TO RUN RODS SECURE WELL CLOSE 7" CSG VALVE AND NIGHT CAP TIW VALVE w NIGHT SDFN |
| 12/9/2015 | 6:00 | 7:00 | 1.00 | WOR | 28 | | Р | | CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIG OPERATIONS |
| | 7:00 | 8:00 | 1.00 | WOR | 39 | | Р | | CSIP 0 PSI TSIP 0 PSI FLUSH TBG w 60 BBLS OF 2% KCL WATER |
| | 8:00 | 12:00 | 4.00 | WOR | 39 | | Р | | P/U PRIME 2 1/2" X 1 3/4" X 38' TIH w 17-C BARS 113-3/4" RODS 111-7/8" RODS 107-1" RODS SPACE OUT PUMP w 8' 8' 4' 2' PONY RODS P/U POLISH TEST AND STROKE TEST PUMP TO 1000 PSI |
| | 12:00 | 14:00 | 2.00 | RDMO | 02 | | Р | | RDMO SLIDE ROTOFLEX TURN WELL OVER TO PRODUTION |